

Michal Krupa
mkrupa@sfsu.edu
Mountain View, California

Summary

I am a dedicated software engineering professional with over fifteen years of experience in IT, currently pursuing a Bachelor's degree in Computer Science at San Francisco State University. My research experience includes work in human-computer interaction and sociology. I have a strong technical background in Python, JavaScript, and various other languages, frameworks, and databases. I am passionate about contributing to innovative computer science research projects and leveraging my extensive industry experience to drive impactful research outcomes.

Education

San Francisco State University, San Francisco, CA - Computer Science - Bachelors (2025 - 2027)
University of Illinois at Urbana-Champaign, Urbana, IL - Computer Science (2012 - 2014)

Skills

Professional – Engineering Management, Digital Strategy, Strategic Communications
Languages – Python, JavaScript, Typescript, React Native, NodeJS, Java, PHP
Databases – PostgreSQL, MySQL, Snowflake, MongoDB, DBT
Frameworks – Django, React, React Native, Laravel, ExpressJS
Analytics – Google Ads, Google Analytics, Redash, Mixpanel, Tableau, Periscope
DevOps – AWS, Terraform, Tomcat, RabbitMQ, Gitlab, Heroku, Docker, EC2

Languages

English (Native), Polish (Native), Spanish (Elementary)

Research Experience

John Paul II Catholic University of Lublin – Consultant, Institute of European Studies – March 2023 - October 2023

Analysis of European integration concerning East/West relations.

University of Illinois Urbana-Champaign, Department of Computer Science – HCI Research Assistant – October 2013 - May 2014

Nutrition per calorie analysis of various foods, assisting Dr. Nakamura of the Nakamura Nutrition Lab.

Past Experience

Open, Inc. – Founder – June 2021 - December 2024 – Los Angeles, California

Open delivers traditional wireline and mmWave wireless home and business internet. Partnered with the best high-speed providers in the Greater Los Angeles area. I appointed an advisory board member from the mmWave wireless industry. I established business relationships with major US wireline service providers, including AT&T and Spectrum. I secured FCC licensing for 70Ghz spectrum deployment.

Additionally, I led negotiations with data center providers in Asheville, North Carolina, and Ontario, California to secure cross-connect resources and data center tenancy.

Wag! Labs Inc. – Engineering Manager – June 2017 - October 2020 – San Francisco, Mountain View, Los Angeles, California

Through the Wag! app, pet parents can book dog walking, pet sitting, in-home dog boarding, and more. I was responsible for growing three engineering teams working across San Francisco, Mountain View, and Los Angeles, California, while reporting directly to the CTO. I later managed an international team as well. I led the integration of Wag's products into the Petco mobile app experience. While I oversaw our SEO products, we increased our monthly website visits from 10MM to 40MM.

Finrise, Inc. – Senior Software Engineer – May 2016 - July 2017 - Burlingame, California

I developed a credit risk evaluation service and built various web-based products for both care providers as well as credit-worthy financing applicants. I was the first engineering hire and worked directly with the CTO and other founding team members. I gained experience in the product UX/UI, web SEO, and lead generation.

InCaptus, LLC – Co-Founder & CTO – March 2013 - May 2016 - Santa Clara, California

I lead architecture and development for our infrastructure and consumer software. I was responsible for managing various teams of designers and engineers, from abroad and across several time zones, ranging from 3 to 6 people in size. I lead our technical growth strategy, as well as technical expert regarding auditing, compliance, and HIPAA Privacy/Security regulation as related to SaaS companies and products. I took part in negotiations to secure recurring contracts totaling over 500K in revenue, growing our presence in the United States, Japan, and China. Our partnerships include several multinational pharmaceutical groups, such as Santen and Regeneron.

Planet Labs – Software Engineering Intern – June 2014 - August 2014 – San Francisco, California

I worked on the data pipeline with four senior-level engineers to design and build systems to support satellite missions and the product team. I worked mainly in Python, building automated systems to load-balance tasks across Amazon EC2 clusters. I contributed to designing an in-house elastic scaling service for better load management on AWS spot-instances. Outside of this, I worked with RabbitMQ to create a distribution client and server for various computationally heavy tasks and learned to use Redis and Logstash to deliver Apache and various other log outputs to a Elasticsearch server running the Kibana web interface.

SitesByHand.com – Platform Engineer - August 2013 - December 2013 – Stanford, California

I managed a team of five engineers across several time zones, serving as lead architect for a RoR-based CRM tailored specifically to our company's needs. Additionally, I set up a deployment infrastructure built on Amazon Elastic Beanstalk as well as several other platform environments for testing and staging. We used several other key AWS technologies, such as an Elastic Load Balancer, and S3 for CDN file data and static asset storage. I maintained best practices and technical documentation, working directly with the CEO on project direction, composing technical strategy, and running the integration of APIs into our engine. These included Braintree for payment processing, as well as MailChimp and PostmarkApp to provide a scaled email system.

Trulia – Software Intern – June 2013 - August 2013 – San Francisco, California

I worked with the consumer web engineering team to develop and maintain existing and new systems and applications. I worked primarily in OOP JavaScript and PHP, heading a project to rewrite the code behind the local pages section of the site. I also worked on mobile optimizations, and rewrote the service's mobile site into a lightweight Node.js application that earned us the 2nd place prize in our company's quarterly hack-a-thon.

Zero1: The Art and Technology Network – Developer – February 2013 - June 2013 – San Jose, CA

ZERO1's mission is to focus the lens of the arts on innovation challenges addressing the complex world in which we live. The project focuses on establishing an online hub that connects social practice artists, social justice NGOs, cultural institutions, and arts and social justice funders and includes a database of past and present social practice projects. The focus of the project is to promote collaborations between foundations, social practice artists, scientists and thinkers involved in seeking solutions to our pressing global challenges.

Wolfram Research – Web R&D Software Intern – November 2012 - February 2013 – Urbana, IL

I developed WolframAlpha website features and debugging the main platform, as well as extended the administrative tools used by the WolframAlpha monitoring platform. The primary technologies I utilized were CSS, JavaScript, JSP and Express Lang, in addition to Java EE. During my time there I also modified the monitoring platform to be easily set up on a local Apache Tomcat environment, rather than on a remote installation.

Womp.in – Co-founder & CTO – August 2011 - August 2013 – Los Altos, CA

Womp provides an intuitive way to discover, listen, and share the best music on the Internet. This included integrating audio content from various sources, including YouTube, Soundcloud, and Echonest (acquired by Spotify). I led our development team and worked with my business partner as well as two designers to create a product that powers the ultimate personal listening experience. I was responsible for the launch UX. We offered a web-based mobile and desktop product.

California Language Teachers Association – Developer – July 2012 - October 2012 – Mountain View, CA

I migrated the organization over to a non-profit Google Apps environment. I provided product support, as well as training for incorporated technology. I built a media management platform for a sister organization to host conference and educational resource videos. I utilized Google APIs to host and query content on YouTube through the application, as well as enable authentication from the CLTA Google Apps domain.

Cureus.com – Developer – February 2012 - October 2012 – Palo Alto, CA

Cureus.com disrupts traditional peer-reviewed medical publishing by letting authors retain copyright, eliminating politics, expediting the publishing process and doing it all at no cost. I joined the team after a second series of funding, at which point the company had over 11M in angel-invested capital. I worked as a full-stack developer with three other individuals in an Agile environment, utilizing test-driven Ruby on Rails development. Our team was responsible for engineering the primary platform using scalable technologies such as Redis and Solr Search, and writing Cucumber, Jasmine, and other Unit tests.

Lightfish.net – Application Developer – May 2010 - September 2011 – Sunnyvale, CA

Lightfish gives people their favorite web experience in one click, enabling users to create and instantly share custom web experience with their friends. My work involved building custom web applications based on the LightFish workflow engine to display content from various websites. This included software testing with Java and performing user experience analysis. Additionally, I created black box automated tests for product quality management.

Manoukian Medical Group – IT Consultant – July 2011 - February 2012 – Mountain View, CA

I administered a medium-sized computer system and domain for a private medical group. This included providing support for a small, full-time staff. Additionally, I played a system administrator role, managing the corporate website and developing internal web application for patient care. I also performed various office intranet configuration and maintenance work.

MVHSoracle.com – Systems Administrator – July 2009 - June 2012 – Mountain View, CA

I created the first online experience for my school newspaper. This involving configuring the hosting and deployment of a Drupal CMS. Administration of the site included various duties such as updating system files and expanding capabilities with new content-oriented modules. I also managed a Google Apps domain and provided training to a staff of 50.

Stanford Law Library – Data & Website Assistant – March 2009 - June 2011 – Stanford, CA

I assisted Professor Grundfest with legal case data entry. This involved work with physical collection volumes as well. Additionally, I managed the Women’s Legal History website for Professor Barbara Babcock, which features a database collection of prevalent female legal figures. This involved extensive relation management work through a custom record entry platform built for the project. I also contributed to Wordpress plugin development and website support. Additionally, I assisted my supervisor with other technical web administrator work.

Honors & Awards

US Cyber Challenge – Top Performer Invitation, US Cyber Challenge Camp – 2025 – United States

Competed in the 2025 US Cyber Challenge, a Center for Information Security and Department of Homeland Security affiliate, placing in the top-performing quadrant nationwide. Earned an invitation to the exclusive US Cyber Challenge Camp, where top competitors meet with leading CIOs and CISOs and participate in one of the country's most prestigious Capture-The-Flag (CTF) cybersecurity competitions. The event focuses on advanced cybersecurity skills in a highly competitive and nationally recognized environment.

JPMorgan Chase – 1st Place, Code For Good – September, 2014 – Wilmington, DE

Worked with JPMC and New York City based iMentor to create a high-level prototype of a mobile-native chat client backed by AWS services. We created a hybrid application bundled under the Ionic Framework, which authenticated against, and served data from, our Python/Django based API service. The goal was to enhance one-on-one mentor and mentee relationships. This was a 24-hour long hackathon, competing against 10 other teams in a fast-paced environment.

Campus 1871 – 2nd Place, Hackathon – April 2014 – Chicago, IL

Worked with several other students from UIUC, Northwestern University, University of Chicago, and IIT to create a high-level prototype of a social platform to help high school and college students build a comprehensive referral network of seasoned professionals. We addressed a growing need for pre-professional networks that give students information on opportunities in various markets and presented a Ruby on Rails backed site that enabled just that.

Volunteer Experience

City of Los Angeles, Hollywood Study District – Treasurer – August 2023 - March 2024 – Los Angeles, CA

The Hollywood Studio District is a registered Neighborhood Council under the City of Los Angeles Charter. The council, like other neighborhood councils in Los Angeles, is an advisory body that works with City Hall to advocate for its community with respect to important issues such as development, homelessness, and emergency preparedness, as well as funding neighborhood initiatives and disbursing grant dollars.

Krause Center for Innovation (KCI) – Information Technology Specialist – June 2008 - August 2010 – Los Altos Hills, CA

I assisted educators through their professional development, helping them gain a better understanding of incorporating technology into the classroom. I worked with teachers on setting up e-portfolios, and troubleshooting computers and programs. This prepared teachers to utilize a more technology-centered experience and use various online tools and applications for project-based learning.