

# Jason Sun's Resume

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## Profile

Generalist software architect. Experience in wide range of software stacks, leading cross team efforts to design and integrate multiple tech stacks to form new products.

- Experience in full stack web, real-time robotics infrastructure, blockchain, and fintech.
- Lead projects, manage project teams, organizational-wide processes.
- Mentor and managing engineers and interns, interviewing, assessing candidates.
- Broad software experience in architecting, leading design and integration, and creating feature design proposals.
- Experience in all product development lifecycle: conception to prototype, to end of life, support and maintenance.
- Experience in fast-paced startup culture and a large corporate environment.
- 20 years of development experience.
- Experience in blockchain stake pool operator and development.
- Self-driven and motivated.

## Work Experience

- Founder *Ada Nomad* March 2023 – present Remote

Adanomad is a software consulting and contracting firm to accelerate and guide product development. We're driven by a shared mission: to break down technical barriers, democratize technology adoption, and foster a thriving community of skilled developers. We tackle real-world challenges in areas like robotics, fintech, and AI.

- Co-Founder *crystaltrade.ai* Technical Trader October 2021 — present Remote

Trades from technical analysis on financial instruments such as options, earnings reports, and volatility analysis. Our technologies include bare metal hardware and cloud deployments, blockchain infrastructures, database migrations and administration with SQLite/Postgres, fullstack React, and stock / options data analysis in Python with Pandas, NumPy, Tensorflow. Trading strategies utilizing data science and machine learning to analyze data faster than the general public.

- Co-Founder *Roamverse* October 2021 — present Remote

Created a collection of NFT art and stakepool operator on the Cardano blockchain. Projects around building a metaverse for roamers and digital nomads on the Cardano blockchain.

- Software Engineer *Amazon Lab 126* June 2019 — January 2022 Sunnyvale, California

Develop the Amazon Astro, a home robot that enables Alexa to take a physical form and have mobility. Also developed platform infrastructure on a real time mapping pipeline and worked on the product for over two years, from prototype to production. Used ROS, C++, Python, Java, and full stack web technologies. Mentored engineers and interns, creating new architectures and driving cross functional team features.

- Autonomous Systems Engineer *AutoX Technologies Inc.* in August 2017 – May 2019 San Jose, California

HD mapping infrastructure working with point clouds for large scale map building used in localization, with Hadoop.

Lead efforts to build API backend for location-based delivery service AutoX apps. GraphQL, Node.js, React. General architect role, lead team efforts to design and integrate tech stacks for product feature development using C++, Python, Javascript. Full-stack autonomous system integration, low/high-speed delivery vehicles.

Experience developing off hardware sensors for SLAM, LOAM using lidars, cameras, radars, ultrasonics.

Delivered features: remote control (networked video streaming and throttle/steering control), hybrid human-and-AI decision making for unhandled driving scenarios (in patent process), design and implement vehicle-to-cloud APIs (LTE networked), embedded systems with touchscreen UI.

Cluster computing automation using Docker, Kubernetes, ROS (Protobuf). Point cloud HD mapping, localization, vehicle remote vehicle control, hybrid human-vehicle interactions, cloud to vehicle API, big data.

- Software Engineer *Apple Inc.* in November 2015 — January 2017 in Cupertino, California

Improved existing product reliability tools, conceived and built full-stack website (Rails API & Ember.js & nginx & MySQL) for managing iOS devices. Created client-sided task runners for delegating test-work, where work jobs were queued from the website. Also worked on internal iOS and macOS apps (Swift & Objective-C).

- Undergrad Research Assistant at University of Waterloo in May 2015 — September 2015 in Waterloo, Ontario

Worked with my AI professor and a 6 person team to develop a data tool for analysis of chat logs, and built a search engine prototype (using TF-IDF in Apache Lucene). Prototyped a search engine for customer support chat dialogues with Apache Lucene using TF-IDF indexing for feature recognition and searching.

- Software Engineer Intern *Shutterfly Inc.* in July 2014 — August 2014 Redwood City, California

Design and implemented a distributed REST API service, in Java/Scala based upon the Apache Cassandra database. The API was designed by myself, with guidance from full-time employee members of the web infrastructure platform team, to be used by other Shutterfly services. Create additional network load tests for our distributed image hosting service.

- Software Developer at *Encircle Inc.* in May 2014 — June 2014 Kitchener, Ontario

Fullstack web developer (CoffeeScript & Python Tornado server) and Android app, 3 engineer startup in the *Velocity Garage*, which is a University of Waterloo startup incubator.

- Software Tools Developer Intern at RIM (BlackBerry) in September 2013 — December 2013 Ottawa, Ontario

Built internally used features to GitLab (Ruby on Rails) and helped with database migration from Github to Gitlab. Developed a testing framework for integration and regression testing website user interfaces using the Selenium Webdriver.

- Physics Teaching Assistant at *Wilfrid Laurier University* in September 2011 - April 2012 in Waterloo, Ontario

Developed a spectrometer reading program in Python, using the pySerial library, to automate the reading of lab samples, and generate a spreadsheet file. Supports multiple spectrometer readings in parallel.

## Education

- *University of Waterloo* Bachelor of Computer Science, 2015. Exchange at *EPFL (Swiss Federal Institute of Technology at Lausanne)*.