

SAI RAMAN

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EXPERIENCE

CADRE Senior Software Engineer

Oct '21- Present

Python, Django, SQL (Postgres), AWS, Javascript, React, HTML, CSS

• Banking Product (Tech Lead)

- Streamlined and enhanced Cadre's wallet service that is powered by an external Banking-as-a-Service (BaaS) provider API.
- Revamped Cadre's Plaid API integration reducing the frequency of errors and improving overall performance.
- Led a time-sensitive and high impact project for the migration of Cadre's BaaS provider.

• Fund Management Product (Tech Lead)

- Spearheaded the conceptualization, implementation, and redesign of vital product features, encompassing investor defaults, net asset value calculations, fees, and transfers, in Cadre's in-house fund management application.
- Collaborated and communicated closely with finance stakeholders to facilitate the seamless delivery of key features and improve efficiencies.

- **Cross Functional Projects:** Headed the development of an application to run fee-based promotional campaigns, resulting in the successful launch of a registered fund that brought in over \$18 million of commitment from investors.

• Platform Enhancements

- Improved roles, permissions and access controls in Django applications introducing customized authorization mechanisms that contributed to business resilience and sped up development.
- Took up initiatives aimed at improving the codebase's quality. E.g. setting up linter rules, running detailed postmortems, etc.

• Ownership and Team Building

- Provided on-call production support during vendor outages, triaged time-sensitive banking outages, and rapidly established safety and fraud mitigation mechanisms during fraud attacks.
- Improved team productivity by revamping code review processes, conducting training sessions, and centralizing documentation.
- Supported the professional growth and development of junior engineers through guidance and mentorship.

JP MORGAN CHASE Senior Associate, Model Risk Quant

Dec '16- Sep '21

- Developed a Python-based data & analytics solution with an Excel-based UX, connecting to relational databases to fetch data. The solution delivered various statistical techniques through a user-friendly front-end, contributing to effective model reviews.
- Conducted market risk model analysis and benchmarking, liaised with cross-functional teams to review and challenge financial models for multiple business lines.
- Performed analysis and attribution of the Risk and P&L for the Equity Derivatives trading desks.

CREDIT SUISSE Analyst, Emerging Markets Group

Jul '15- Nov, '16

- Developed and maintained the monthly & quarterly yield curve valuation testing function for the Emerging Markets Fixed income trading desk by building out the yield curves of Peru, Venezuela, Chile and Colombia based on external broker quotes.

GE OIL & GAS Integrated Project Planning Analytics

Jul '13- Feb '14

EDUCATION

RECURSE CENTER

Nov '20

Participant at a multi-week, self directed programming retreat

- Machine learning: Analyzed audio features from a large dataset to train machine learning models and implemented various algorithms for optimal prediction accuracy.
- Web development: Developed web applications utilizing the Flask Python framework with a focus on user experience.
- Authentication: Implemented user authentication features using popular libraries such as *wtforms* and *itsdangerous*.
- Text message integration: Evaluated and implemented integration with third-party APIs, such as Twilio, for seamless text message delivery in web applications.

CFA INSTITUTE Passed Levels I & II of the CFA Program

NORTH CAROLINA STATE UNIVERSITY, Master's in Financial Mathematics

2015

Master's Thesis: Multi-dimensional Derivative Pricer

UNIVERSITY OF MELBOURNE

2014

Graduate Coursework: Optimization, Computational Differential Equations, Mathematics of Risk, Probability & Mathematical Statistics

SSSIHL INDIA, Bachelor's of Sciences in Mathematics, Honors

2012