

Nagaganesh Jaladanki

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Education

UC Berkeley, EECS MS '21

UC Berkeley EECS BS '20

GPA: 3.98 / 4

Concentration: Mathematical Finance

Skills

- Python
- Java
- NumPy + SciPy
- C
- Unix
- Solidity
- Google Cloud
- Vue.js
- SQL
- Firebase

Awards

Kraft Freshman Award

Attained a perfect 4.0 GPA during the first semester (top 3%)

Dean's Honor List

Overall GPA in top 10% of College of Engineering majors (all semesters)

USACO Gold

Qualified to the Gold division of national high-school algorithmic programming contest

Outstanding GSI Award

Awarded to top 10% of student instructors per year

AIME Qualifier

Placed in the top 1.5% out of over 170,000 students in national math contest

EECS Honors Program

Program for top EECS students involved in undergrad research

Stanford ProCo

Awarded 4th in a pool of ~50 teams at Stanford's comp programming tournament

HS HACKS II

Placed 2nd out of 1300 participants for building TFTI, a social networking web app

Experience

Stripe | Software Engineering Intern May 2020 – Aug 2020

- Working on Reporting Products, adding additional functionality to Stripe Sigma

D. E. Shaw | Quantitative Developer Intern May 2019 – Aug 2019

- Researched optimization on high-dimensional and nonlinear manifolds for portfolio allocation
- Deployed strategies led to an annualized \$6M+ saved in portfolio financing costs
- Developed linear program attains 86% of the theoretical profit with a 14x increase in sparsity

Evernote | Machine Learning Applications Intern May 2018 – Aug 2018

- Proposed, developed, and launched Project Metadata, Evernote's Data Engineering portal
- Created a full-stack web app to schedule recurring SQL queries to BigQuery databases
- Built proof-of-concept workflow tools to create ETL DAGs through a graphical interface

CodeBase Consulting Group | Machine Learning Developer Jan 2018 – present

- Developed machine learning algorithms to set a dynamic price floor for ad-tech campaigns
- Final models achieved a ~13x profit increase when compared to the optimal static price floor
- Used Nelder-Mead for hyperparameter optimization to train over 1.26 billion points of data

Berkeley Blockchain Lab | Undergraduate Researcher Jan 2018 – May 2018

- Constructed and implemented system design for data flow on a layer-2 Ethereum protocol
- Developed Ekiden, a blockchain protocol that implements private smart contracts using Intel SGX technology for provably secure code execution
- Created blockchain transaction graph visualizations to quantify network usage patterns

UC Berkeley EECS Department | Teaching Assistant Jan 2018 – present

- Official course staff for Discrete Mathematics (CS 70) and Computer Security (CS 161)
- Rated an average of 4.94 on instruction quality and helpfulness (department average 4.33)
- Hold weekly discussion sections, develop course content, and create test questions

Banyan Infrastructure | Full-stack Consultant Jun 2018 – Oct 2018

- Lead engineer for Banyan's serverless architecture and front-end developed in Vue and Hugo
- Deployed platform pilot to manage over \$20M+ in loan assets backed by solar infrastructure
- Built business logic and UI for bank interface systems and loan analytics dashboards

Greensparc Inc. | Blockchain Consultant Dec 2017 – Feb 2018

- Directly facilitated the interactions of \$56,000+ in Ethereum and over 100,000 website hits
- Headed development for Greensparc's Cirrus Coin ICO for the Ethereum blockchain
- Led a team of two to create front- and back-end interfaces with Solidity and Node.js

Projects

NESmerize Feb 2019

- Cycle-accurate Nintendo Entertainment System emulator with next-frame response times
- Contains sub-emulators for CPU, graphics, audio, input, and on-cartridge ASICs
- Precisely replicates hardware-level interrupts, unofficial opcodes, and scanline rendering
- Built using C++ and SDL2 graphics library

Etherball Jan 2018

- Fixed-jackpot lottery system for Ethereum with non-deterministic randomness algorithm
- Hit front page of /r/Ethereum (300,000+ subscribers)
- Full-stack DApp (decentralized application) built with Solidity, Node.js, and Bootstrap