Nagaganesh Jaladanki

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Education

UC Berkeley, EECS MS '21
Distributed Systems

UC Berkeley EECS BS '20
GPA: 3.98 / 4
Conc: Mathematical Finance

Skills

- Python
- Java
- Ruby
- NumPy + SciPy
- C++
- SQL
- React.js
- Unix

Awards

Outstanding GSI Award
Awarded to top 10% of student instructors per year

Efficient Compiler Winner
Placed 1st in compiler optimization class project competition

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

EECS Honors Program
Program for top EECS students involved in undergrad research

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

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

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

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

Industry Experience

Stripe | Software Engineering Intern May 2020 – Aug 2020
- Built an internal framework in Ruby to automate reporting queries for Stripe merchants
- Proposed, ran user trials, and developed a paid data analysis tool for nontechnical users
- Created and launched a development tool to simplify service management and log filtering

D. E. Shaw | Software 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 a linear program that 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

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

Academic Work

UC Berkeley EECS Department | Algorithms Teaching Assistant Aug 2019 – present
- Official course staff for Discrete Mathematics (CS 70) and Efficient Algorithms (CS 170)
- 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

Berkeley Blockchain Lab | Distributed Systems Researcher Aug 2017 – Aug 2018
- Constructed and implemented system design for data flow on a layer-2 Ethereum protocol
- Developed a blockchain protocol for smart contracts with provably secure code execution
- Created blockchain transaction graph visualizations to quantify network usage patterns

CodeBase Consulting Group | Machine Learning Developer Jan 2018 – Dec 2019
- Managed team of 6 developers to build data pipelines for advertiser audiences with Mixpanel
- 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

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