NIRVIK BARUAH

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EDUCATION

Stanford University   *Expected Graduaion: June 2022*
B.S. Computer Science; Minor in Classical Studies.   **GPA 4.0**
Skills: Python, C/C++, Rust, PHP, JS (React.js, Typescript), Node.js, Swift, Docker, Git
Relevant Coursework: Computer Systems, Operating Systems, Linear Algebra, Probability, Undergraduate Research, Data Structures, Algorithms

EXPERIENCE

TockOS - Systems Researcher (PI: Professor Phillip Levis)   *October 2020 - Present*

- Developing a secure operating system for running concurrent processes on low-memory and low-power embedded devices
- Creating multiple efficient peripheral drivers for TockOS using Rust and C on an Arduino

Byers Center for Biodesign - Full-Stack Developer (PI: Dr. Lance Downing)   *August 2020 - Present*

- Full-stack website developer for Care-It, a research initiative to improve end-of-life patient care through the creation of a secure online platform
- Leading creation of web-app and running beta tests in the Santa Clara Hospital System
- Node.js, React, Firebase, Typescript

Brown University AI Lab - Researcher (PI: Professor Carsten Eickhoff)   *May 2020 - August 2020*

- Built a literature search engine for geneticists to efficiently retrieve the latest information on 25,000+ genetic mutations and diseases from various scientific publications
- Scoped project and iterated with professors and relevant stakeholders at the Warren Alpert Medical School of Brown University
- Python (BeautifulSoup), Node.js, Lucene, Docker, Heroku, Git

Stanford University - CS198 Section Leader   *March 2020 - Present*

- Teach students fundamental concepts from sorting to bitmap image processing
- Run weekly classes where I teach problem solving strategies and programming best practices
- Hold office hours to debug code in Python and C++ for over 600 students in Stanford University's largest computer science course

PROJECTS

TreeHacks
Tech Fellow for Tree Hacks, Stanford's largest annual hackathon. Built web platform to facilitate team formation and ideation for >1000 participants using MERN Stack (MongoDB, Express, React.js, Node.js). Position involved rebuilding large parts of our online infrastructure as we transition to a virtual hackathon for the first time due to COVID-19.

PoliSpectrum
Co-founded a company at an MIT startup incubator to solve political news bias. Served as the technical leader and built a website which automatically aggregated and summarised online news from political sources using extractive text summarisation algorithms. Used the LAMP stack and pitched the product to VCs in the Boston area.