Avinash Rao

https://www.avinashrao.me/ | https://www.linkedin.com/in/avinashrao2002/ | avinashrao2002@gmail.com

EDUCATION

University of California, Berkeley *(Expected Graduation: Spring 2023)*
B.S: Electrical Engineering & Computer Sciences; GPA: 4.0;
- *Relevant Coursework:* Data Structures and Algorithms, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems (I & II), Machine Structures, Intro Matlab, Multivariable Calculus
- *Distinguishments:* Regents and Chancellor's Scholar (top <1% of students), The Leadership Award & Scholarship Recipient, National Merit Finalist & Scholarship Recipient (top 5% of students nationally)

SKILLS

Languages and Frameworks: Proficient in Python (Including Pandas, NumPy, & Django), Javascript (Including Node, React, Next JS, & Angular), Typescript, Java, HTML, CSS, SQL, & GraphQL. Familiar with C, Swift.
APIs & Tools: AWS, Vercel, Git, MongoDB, Netlify, Electron, JUnit, Jest, Firebase, Algolia, Bootstrap, MaterialUI

EXPERIENCE

Software Engineering Intern | *June 2021 - Present*
OKC Thunder Data Solutions
- Designed and implemented multiple frontend components with Angular, Django, and PostgreSQL for users to view and sort team development metrics by priority and recency
- Optimized Django queries with Redis caching, improving performance by 70% on several filters
- Integrated Amazon S3 as a datastore for adding and updating user media

Software Engineer | *August 2020 - May 2021*
Dormtalk - Berkeley SkyDeck
- Developed and scaled a social networking application for U.C. Berkeley students with React JS, Bootstrap, and Firebase in an Agile environment
- Wrote 40+ unit and integration tests with Jest for an iterative code review process
- Selected to the prestigious Berkeley SkyDeck Hotdesk program (top 5% of startups)

Research Intern | *June 2019 - August 2019*
Stony Brook University
- Analyzed circuit performance through Python and used regression/interpolation to make accurate predictions on efficiency and power.
- Invited to and published research in the ACS National Convention and APS National Meeting

Software Development Intern | *August 2018 - June 2019*
DVHS Career Center
- Built interactive web platforms with Vue JS for my high school's counseling department
- Led a team of developers in implementing a Python web-scraping algorithm for admissions quotas

TECHNICAL PROJECTS

GraphQL Restaurants API | *December 2020 - January 2021*
- Created a Node JS restaurant sorting API with Express, GraphQL, and ApolloServer
- Integrated Mongoose and performed real-time queries/mutations with React JS and ApolloClient

TaskMe | *September 2020 - October 2020*
- Built a task management desktop application with React JS and Electron
- Utilized Firebase to store tasks and wrote cloud functions that automated CRUD operations

Apptivism | *June 2020 - August 2020*
- Developed and deployed a JS web app and Swift IOS app for organizing protests and activist networking
- Integrated the Mapbox API to facilitate event planning and Algolia API to perform real-time queries