ABHI GANESH

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EDUCATION

University of California, Berkeley May 2024
Bachelor of Science in Electrical Engineering and Computer Science GPA: 3.95
Minor in Creative Writing, Regents' Scholar Finalist

EXPERIENCE

Software Engineer, *Oracle* July 2024-Present
- Working on the Fusion AI team to bring Generative AI solutions to Oracle Cloud applications

Machine Learning Engineer Intern, *Oracle* Summer 2023
- Continued building production features for DataFox, an AI engine for Big Data acquisition on companies
- Created three new NLP news signal parsers with Compromise to flag existing/predicted bankruptcies, regulatory issues, etc, and contributed to increasing the true positive rate of previous parsers by ~25% to achieve a historic DataFox high
- Designed a vector search and generative AI-based POC with Weaviate and Cohere for news signal tagging
- Integrated a new ML model into the current pipeline to improve DataFox's recognition of company-centric terminology when 'reading' news signals

Software Engineering Intern, *Oracle* Summer 2022
- Built numerous full-stack production features with unit/integration tests for DataFox, an AI data engine for data and news signals acquisition on 10.3 million businesses in Node.js, Ember.js, TypeScript, and Python
  - Doubled data auditors' workflow efficiency by automating the manual merging of duplicate company data and writing of auditor notes by creating a Node.js-based microservice
  - Implemented a 'Data Integrity Problem' detection algorithm to flag companies with flawed data

Software Engineering Intern, *Federal Reserve Bank of St. Louis* Summer 2021
- Implemented Selenium test automation to serve as a smoke test for a large U.S. Treasury application
- Created a program for Bank leadership to calculate and display quarterly changes in server usage by 20+ Treasury products, which is still used generate periodic expenditure reports and perform cost analysis
- Assisted with Python RPA efforts for the creation of the Bureau of the Fiscal Service's fiscal projections

PROJECTS

BeeEasy, *Google WaveNet synthesis/TTS API, Flutter SDK (Dart) for web, iOS, and Android release*
- A spelling bee training app with importable word banks (*any* PDF), parts of speech, pronunciations, etc.

WishBot, *Winner of Berkeley OpenHacks 2020 - web scraping, open-source release, Heroku deployment*
- A Python language processing chatbot that creates personalized Etsy wishlists during the holiday season

SKILLS

Languages: Java, Python, Node.js, Ember.js, SQL, C, VBA, Lisp/Scheme, Go
Tools: Linux/Unix/RPi, Android Studio/Intellij/VSCode, Git, TensorFlow, OpenCV, Photoshop/Final Cut Pro X

TEACHING/EXTRACURRICULARS

Internet, Computer Security, and Data Structures TA, *UC Berkeley EECS* August 2021 – May 2024
- Taught 600+ students concepts such as memory safety/web vulnerabilities & prevention (buffer overflow, CSRF/XSS/SQL injections), cryptography, and the Internet (ARP, DHCP, WPA, BGP, TCP/UDP, TLS, DNS)
- Ran labs, taught discussion sections, held office hours, and lectured on Java, data structures, OOP, runtime analysis, algorithms (e.g., Dijkstra's, A*, Prim's/Kruskal's MST) and sorting, graph traversals, and more

President, *Institute of Electrical and Electronics Engineers* August 2020 – May 2024
- Organize, direct, and host social, professional development, and corporate events
- Work with Google, Micron, Apple, Cisco, SAP, Texas Instruments, and many more on campus workshops
- Collaborate with campus officials and the IEEE National chapter to organize finances and event spaces