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 Fusion AI*   July 2024-Present
- Developing business-facing Generative AI features (Java) for the Fusion Apps suite using Cohere RAG agents
- Created and support a REST service (Java) for secure OCI Object storage per new cybersecurity policies
  - Led TDD creation, consumer uptake, development, pipeline creation (Jenkins), and release to QA
- On DevOps team in charge of full Fusion AI product release/environment management

Machine Learning Engineer Intern, *Oracle DataFox (Big Data AI Engine)*   Summer 2023
- Created three new NLP news signal parsers (Python) to flag existing/predicted company bankruptcies, regulatory issues, etc, which increased the true positive rate of previous parsers by ~25%
- Designed a vector search and Generative AI-based news signal classifier POC (Python, Weaviate, Cohere)
- 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 test automation (Selenium) to serve as a smoke test for a large U.S. Treasury application
- Created a tool (VBA) for leadership to display quarterly changes in server usage by 20+ Treasury products, which is still used to generate periodic expenditure reports and to perform cost analysis
- Assisted with RPA efforts (Python) for fiscal projections on behalf of the Bureau of the Fiscal Service

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, 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: Unix, Intellij/VSCode, Git, TensorFlow, OpenCV, Photoshop/Final Cut Pro X

TEACHING & LEADERSHIP

Internet, Data Structures, and Cybersecurity Head 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 @ UC Berkeley*   August 2020 – May 2024
- Organized and hosted social, development, corporate events, and technical projects
- Work with Google, Micron, Apple, Cisco, SAP, Texas Instruments, and many more on campus workshops