SOHAN KANCHERLA

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EDUCATION

University of Illinois - Urbana-Champaign   **August 2023 - May 2025**
Master's, Computer Science   *GPA: 4*

University of California - Berkeley   **July 2023 - December 2023**
Certification, Certificate in Machine Learning and AI

Barrett, the Honors College at Arizona State   **August 2019 - May 2023**
Bachelor's, Computer Science   *GPA: 3.78*

PROFESSIONAL EXPERIENCE

Intel   **Folsom, CA, USA**
Full Stack Software Engineer Graduate Intern   *December 2023 - Present*
- Played a pivotal role as one of four developers in collaboratively developing and deploying a semiconductor testing dashboard dramatically increasing productivity for 600+ Intel employees by cutting manual workload by 90% and delivering impactful data analysis and visualizations
- Initiated and lead the migration towards a "dashboard of dashboards" concept, leveraging React, Vite, Tailwind CSS, and NextUI for a more integrated and scalable user interface solution
- Developed a 2 CI/CD Pipelines for React and Flask deoplyment utilizing Docker containers, Kubernetes, and Github Actions
- Developed 5+ backend pipelines using Python, leveraging SQL and Pandas for data retrieval and manipulation, and Flask for managing dashboard routing, resulting in an overall 30% enhancement in data processing efficiency.

Encyclopedia Britannica   **Remote**
Machine Learning Engineer Intern   *August 2023 - October 2023*
- Utilized Elasticsearch to efficiently identify news headlines corresponding to specific encyclopedia articles through cosine similarity analysis, enhancing the relevancy of suggested news articles.
- Enhanced content curation by an additional 40% through fine-tuning a Zero-shot classification model from Hugging Face, leveraging Elasticsearch for cosine similarity analysis in training

Intel   **Folsom, CA, USA**
Full Stack Software Engineer Intern   *May 2020 - May 2023*
- Contributed as a key developer among a team of four in collaboratively developing and deploying a semiconductor testing dashboard hosted on Cloud Foundry, dramatically increasing productivity for 600+ Intel employees by cutting manual workload by 90% and delivering impactful data analysis and visualizations
- Engineered and enhanced the frontend of 20+ tools employing Dash by Plotly and Bootstrap for UI development and Plotly for data visualizations, improving user engagement and data interpretability
- Developed 50+ backend pipelines using Python, leveraging SQL and Pandas for data retrieval and manipulation, and Flask for managing dashboard routing, resulting in an overall 30% enhancement in data processing efficiency
- Authored and refined 20+ Python automation scripts, streamlining repetitive tasks and enhancing operational workflows, boosting productivity by 20%
- Successfully migrated the entire codebase for the dashboard from GitLab to GitHub, enhancing collaboration and version control practices, and facilitating a more streamlined code management process for the development team

PROJECTS & OUTSIDE EXPERIENCE

Stock Market Simulator
- Developed an interactive web application simulating real-time stock market trading using HTML, CSS, and vanilla JavaScript.
- Used SQLite for storage and management of stock trades and user data.
- Integrated Finnhub API to fetch accurate stock prices and facilitate stock search functionalities
- Utilized Python and Flask for server-side routing and handling
- *Link to project*

SKILLS

Skills: HTML5, CSS3, JavaScript, TypeScript, Tailwind CSS, React.js, Next.js, Node.js, Python, Flask, REST APIs, SQL, NoSQL, Git, AWS, Linux/Unix, Data Structures & Algorithms, Agile, Docker, Kubernetes, Java, C/C++, Natural Language Processing (NLP), LLM