VISHAL DEVIREDDY

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EDUCATION

University of Washington, Seattle   M.S. **2022**, B.S. **2021**
Major: Computer Science   GPA: 3.98
Courses: Software Design, Systems, OS, Databases, Algorithms, Computer Vision, HCI, Data Visualization

EXPERIENCE

Benchling   January 2023 - Present
Software Engineer I/II   San Francisco, CA

- Supporting fast, flexible, and accurate structured data entry in Benchling's Electronic Lab Notebook.
- Building a structured table framework with React and Typescript on the frontend and Python on the backend.
- Enabled scientists to use Excel-like formulas in structured data tables and other areas of the product.
- Implemented spreadsheet functionality like sorting and versioning to optimize research workflows.

Benchling   June 2022 - September 2022
Software Engineering Intern   San Francisco, CA

- Visualized the chemical structure of oligonucleotides to help biochemists design modified DNA sequences.
- Worked with RDKit, Python, and React to show interactive chemical structure diagrams across Benchling.

Amazon (AWS)   June 2021 - September 2021
Software Development Intern   Seattle, WA

- Added a real-time manual transcription feature to the Amazon Chime meeting API using Go and TypeScript.
- Enabled Chime SDK clients to edit a meeting's live captions generated through Amazon Transcribe.
- Created a demo meeting webapp to showcase the live captioning feature of the Chime SDK.

Apple   June 2020 - September 2020
Front-end Development Intern   Remote

- Created interactive and engaging animations using JavaScript, CSS, and canvas on Apple's iPad Air webpage with more than 30 million views worldwide.
- Worked with designers to develop an efficient, accessible, responsive, and localizable web page.
- Built a web accessibility library to enable screen reader support for complex web animations.

T-Mobile   July 2019 - August 2019
Software Engineering Intern   Bellevue, WA

- Created a search API for support articles with TypeScript and Elasticsearch. Used by call center reps with more than 3 million unique searches per month.
- Deployed the API as a microservice architecture to AWS and gained experience in distributed computing.
- Improved search engine speed and result relevance while reducing AWS hosting costs.

TECHNICAL SKILLS

Software Engineering   Full-stack development, API design, UI design, data visualization
Programming Languages   Python, Java, JavaScript, React, SQL, HTML/CSS, C++, Go, Rust