Vignesh Chandrasekhar

Computer Scientist
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Website/LinkedIn/GitHub

EDUCATION

Bachelor of Science in Computer Science Boulder, CO
University of Colorado Boulder Aug 2019-May 2023
Cumulative GPA: 3.977
Honors: *Engineering Merit Scholar, CU Esteemed Scholar, Engineering Dean's List, Thomas T. Eaton Scholar*
Business Minor

Technical Skills

Languages C++, C, Java, Python, JavaScript, HTML, CSS
Technologies PostgreSQL, MySQL, MongoDB, Heroku, Git, Google Cloud Platform, NPM, Docker
Course Knowledge Algorithms, Data Structures, Software Development, Computer Systems, Operating Systems, Artificial Intelligence, Database Systems, Data Science, Theory of Computation, Discrete Structures

EXPERIENCE

Software Developer Intern; *Charles Schwab*; Lone Tree, CO June 2022 – Aug 2022

- Software developer intern for Charles Schwab's Wealth & Asset Management Architecture team

Finance Director; *HackCU*; University of Colorado Boulder Aug 2021 - Present

- Director of finance for HackCU. Manage the finances and accounts, communicate with corporate sponsors and university organizations for funding and networking at hackathons.

Course Assistant; *Software Development-CSCI3308*; University of Colorado Boulder Aug 2021 – Dec 2021

- Supported students in learning the tools and methods used in front-end and back-end software development. Assisted students in implementing html, CSS, bootstrap, NodeJS, ExpressJS, Docker, PostgreSQL, and Heroku for web application projects.

NSF-REU; National Science Foundation; Utah State University May 2021 – July 2021

- Conducted research in engineering education and its applications to topics in fluid dynamics. This was part of an ONR funded project called "Mobile Instructional Particle Image Velocimetry (mI-PIV): Using Mobile Devices to Improve Interest and Conceptual Learning in Fluid Mechanics through Hands-on Flow Visualization and Experimentation".
- Developed a Teach Engineering activity for a vortex generator experiment
- Wrote a literature review in mobile learning in STEM education.

Projects

Optimized Health: Full stack smart health web application built with NodeJS, PostgreSQL, and the Spoonacular nutrition API.

Bloggyz: Full stack blog website built with NodeJS, MongoDB, and utilizes GoogleOAuth2.0 for Gmail log in.

Multi-lookup: Programmed a multi-threaded DNS resolver in C using synchronization methods. Scored highest multi-threaded speedup of all submissions. Part of the Operating Systems course at CU Boulder.

Leadership Experience

Treasurer/Chief of Justice; *Delta Kappa Epsilon*, University of Colorado Boulder Nov 2020 – Present

- Managed fraternity finances, accounts, and budgets. Communicated with our national advisors and chapter members to discuss active rosters and payment plans. Member of chapter executive board.