

Vignesh Chandrasekhar

Computer Scientist

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[Website/LinkedIn/GitHub](#)

EDUCATION

B.S., Computer Science, Business Minor

University of Colorado Boulder

Cumulative GPA: 3.977, Major GPA: 4.00

Honors: *Engineering Merit Scholar, CU Esteemed Scholar, Engineering Dean's List, Thomas T. Eaton Scholar*

Boulder, CO

Aug 2019–May 2023

Technical Skills

Languages/Frameworks C++, C, C#, Java, Python, JavaScript, TypeScript, Angular, NodeJS, .NET Core 3

Technologies PostgreSQL, MySQL, SQLServer, MongoDB, Heroku, Git, GCP, NPM, Docker, AWS, Anaconda, Jupyter

Course Knowledge Algorithms, Data Structures, Software Development, Computer Systems, Operating Systems, Database Systems, Data Science, AI, Theory of Computation, Discrete Structures

EXPERIENCE

Software Engineer Intern; *Charles Schwab – Wealth & Asset Management* Engineering June 2022 – Aug 2022

- Developed a full stack governance application using Angular 9, C# .NET Core 3, and SQLServer that allows WAME local governance coordinators and board members to view, maintain, schedule reviews, and vote on architecture requests submitted by engineering and developer teams through Jira. Utilizes the Jira REST API to retrieve ticket information and submit subtasks and comments to an issue.
- Utilizes a 3rd Normal Form Data Model to manage personal information of a developer or coordinator, review schedule, selected voters/reviewers, voting results, and stipulations. Incorporates associative tables to reduce redundancy via foreign key relationships
- Sends emails to architects and coordinators in different contexts with SMTP.
- Utilizes route guards via SSO authentication for different WAME security groups.

Finance Director; *HackCU*; University of Colorado Boulder

Aug 2021 - Present

- Oversee and manage finances, accounts, budgets, and communication/networking with corporate sponsors for HackCU events

Course Assistant; *Software Development-CSCI3308*; University of Colorado Boulder

Aug 2021 – Dec 2021

- Assisted students in building web applications using HTML, CSS, JavaScript, bootstrap, NodeJS, Express JS, Docker, PostgreSQL, REST APIs, and Heroku.

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 for an ONR funded project: "Mobile Instructional Particle Image Velocimetry (ml-PIV). Developed a Teach Engineering activity for a vortex generator experiment

Projects

[Optimized Health](#):

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

[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 – May 2022

- 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.