

Vignesh Chandrasekhar

Computer Scientist

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[Website/LinkedIn/GitHub](#)

EDUCATION

Bachelor of Science in Computer Science

University of Colorado Boulder

Minor: Business

GPA: 3.972/4.00

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

Boulder, CO
Aug 2019-May 2023

Technical Skills

Languages C++, C, Java, Python, JavaScript, NodeJS, HTML, CSS

Databases PostgreSQL, MySQL, MongoDB

Production Tools Heroku, Git, Google Cloud Platform, NPM, Docker

Course Knowledge Algorithms, Data Structures, Software Development, Computer Systems, Principles of Programming Languages, Database Systems, Data Science, Theory of Computation, Discrete Structures

EXPERIENCE

Course Assistant; *Computer Science Department, University of Colorado Boulder* August 2021 – December 2021

- Course assistant for CSCI 3308: Software Development Methods and Tools. 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 to develop web applications.

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

- Director of finance for [HackCU](#). I help manage our organizations finances and budgets, reach out to prospective sponsors to sponsor our hackathons, and team up with university organizations for support and funding.

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 (ml-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.

Learning Assistant; *Computer Science Department, University of Colorado Boulder* August 2020 - December 2020

- Supported CSCI 1300: Starting Computing students in learning C++ programming by holding office hours via Zoom 5-8 hours per week, helping students with homework sets and projects, answering student questions during recitation periods, and discussing lesson plans with the instructional team

Projects

[Optimized Health](#)

- Programmed a full stack web application that gives users a comprehensive guide along their health journey using NodeJS passport and PostgreSQL. Utilized the Spoonacular nutrition API.

[Bloggyz](#)

- Created an online blog website where users can add blog posts, view other user's blog posts, create public or private blog posts. Utilizes GoogleOAuth2.0 for Gmail log in.

Leadership Experience

Treasurer; *Delta Kappa Epsilon*, University of Colorado Boulder

Nov 2020 – Dec 2021

- Managed fraternity finances for social, recruitment, and philanthropy events by developing semesterly budgets and creating payment plans for active member dues. Communicated with our national advisors to discuss active rosters and payment plans for national dues. Member of chapter executive board and assisted in planning agenda.

Chief of Justice; *Delta Kappa Epsilon*, University of Colorado Boulder

Jan 2020 – Present

- My role as Chief of Justice is to hold member's accountable for their behavior and ensure the safety and well being of all members.