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

GPA: 3.972/4.00

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

Technical Skills

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

Databases PostgreSQL, MySQL, MongoDB

Production Tools Heroku, Git, Google Cloud Platform, NPM

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 using html, css, bootstrap, nodeJS, Express nodeJS, Docker, PostgreSQL, and Heroku to develop web applications.

Tech Team Member; *HackCU*, University of Colorado Boulder   August 2021 - Present

- Tech team organizer for *HackCU*. I am currently working with the tech team to move the HackCU main website from react.JS to next.JS

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. In process of publication

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 accounts' 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, philanthropy events by created semesterly budgets
- Developed payment plans for active members dues
- Consulted with DKE national officers to payoff current dues outstanding debt
- Member of chapter executive board; planned weekly agenda