

# Vignesh Chandrasekhar

Computer Scientist  
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[Website/LinkedIn/GitHub](#)

## EDUCATION

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### Bachelor of Science in Computer Science

University of Colorado Boulder

GPA: 3.965/4.00

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

Boulder, CO  
Aug 2019-May 2023

## Technical Skills

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**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

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**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 (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. 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

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### 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

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**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