

# Varun P. Gangadharan

[Email](#) | [Linkedin](#) | [Website](#) | [Github](#)

## EDUCATION

**University of Illinois at Urbana-Champaign, Grainger College of Engineering**

Bachelor of Science in Computer Science

Currently Enrolled In: Masters in Computer Science

GPA: 3.73/4.0, Completed May 2023

Expected Graduation: May 2024

## SKILLS & TECHNICAL TOOLS

- **Languages:** Java, C++, C, Python, JavaScript, HTML/CSS, SQL, Swift, MATLAB, R, MongoDB
- **Technologies:** Git, AWS, Docker, Kubernetes, Vim, ReactJS

## WORK EXPERIENCE

**Flow AI (SaaS Sales Solution Startup)**

**May 2023 – August 2023**

*Fullstack Software Engineer Intern | Python, ReactJS, SQL, Django, AWS*

*Austin, TX*

- Led team of 5 interns to build front-end in ReactJS, increasing engagement by 18%
- Optimized back-end with Django/SQL, improving database performance by 28%
- Implemented AWS cloud infrastructure, supporting up to 850 daily sessions

**Leidos**

**June 2022 – August 2022**

*Software Engineer Intern | Python, Kornshell, Bash, Docker*

*Gaithersburg, MD*

- Developed algorithms in Python, boosting data accuracy by 12%
- Converted Kornshell to Python, enhancing maintainability
- Restructured scripts in Python, reducing runtime by 23%

**Shop2App**

**May 2021 – August 2021**

*Software Engineer Intern | ReactJS, jQuery, Node.js*

*Germantown, MD*

- Designed front-ends for 8 client apps in ReactJS, increasing usage by 18%
- Led UI design with React for 6 websites, boosting engagement by 12%
- Used jQuery to accelerate delivery

## PROJECTS

**AI-driven Nutrition Recommender System | ReactJS, AWS, Python**

- Improved personalized diet plan generation by 32% by considering user preferences, dietary restrictions, and health goals.
- Deployed and accessible at [ai-nutrition-recommender.vercel.app](https://ai-nutrition-recommender.vercel.app), utilizing ReactJS for the responsive front-end and AWS Lambda for scalable performance, supporting 2,000+ daily sessions.

**Sentiment Analysis and Visualization Twitter App | ReactJS, Python, AWS, Docker, Kubernetes**

- Achieved a 28% enhancement in sentiment detection through a real-time, multilingual sentiment analysis engine using Tweepy Stream API, NLTK, SpaCy, and scikit-learn.
- Developed a user-friendly web interface with React.js and integrated data visualizations using Matplotlib and Seaborn.

**Housing Web App | ReactJS, NodeJS, ExpressJS, MongoDB**

- Developed a housing web application for the college town area of UIUC, enhancing the search experience for users.
- Created an immersive platform with an intuitive user interface and dynamic filtering capabilities, providing users with a seamless housing exploration experience.

**Ideal Gas Simulation | C++, Cinder**

- Developed an advanced application simulating an ideal gas system with three distinct particle types. This application offers users an interactive environment for manipulating various properties affecting particle physics, such as speed, temperature, heat energy, and gravity.
- Implemented data visualization techniques, including real-time histograms and dynamic graphs, enhancing user comprehension and engagement.

## ACTIVITIES & VOLUNTEERING

- Peer Tutor, University of Illinois at Urbana-Champaign: Assisted peers in understanding and completing CS projects across numerous core classes, contributing to improved class performance.
- Active participant in student-led organizations, including ACM and Reflections Projections, contributing significantly to the organization and successful execution of key events such as career fairs and hackathons.