Varun P. Gangadharan

Email | Linkedin | Website | Github

EDUCATION

University of Illinois at Urbana-Champaign | Grainger College of Engineering

Bachelor of Science in Computer Science   GPA: 3.73/4.0, Completed May 2023
Currently Enrolled In: Masters in Computer Science   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 – Aug. 2023**
Fullstack Software Engineer Intern | Python, ReactJS, SQL, Django, AWS   *Austin, TX*

- Implemented backend features using Python and Django, contributing to an increase in overall system efficiency and ensuring the capability to reliably handle 1,000+ API requests per day.
- Optimized SQL database queries, reducing data retrieval times by 14%, enhancing the user experience for 7 active sales agents who tested the platform.
- Worked with the DevOps team in partially migrating services to AWS, achieving a 99.5% uptime during the testing phase and projecting an 11% reduction in future server costs.

Leidos   **Jun. 2022 – Aug. 2022**
Software Engineer Intern | Python, Kornshell, Bash, Docker   *Gaithersburg, MD*

- Led the effort in migrating a backend API call system in order to deprecate a legacy service, improving code maintainability and reducing technical debt ,
- Utilized Python to write and debug code for various services in a large-scale distributed system aimed at enabling en route controllers to track 1,900 aircrafts at a time.
- Facilitated cross-functional collaboration with teams across 4 departments, achieving a 100% seamless migration with zero downtime, preserving the workflow for over 300 active users.

Shop2App   **May 2021 – Aug. 2021**
Software Engineer Intern | ReactJS, jQuery, Node.js   *Germantown, MD*

- Instrumental in the design and development of 6 client applications, resulting in a 23% increase in customer engagement and contributing to onboarding 20+ new customers over the course of a year.
- Leveraged expertise in Redux and ReactJS frameworks to contribute to front-end development, incorporating HTML/CSS and jQuery to create intuitive user interfaces.
- Seamlessly integrated front-end applications with back-end services through RESTful APIs, adhering to industry practices to ensure efficient and clean code.

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, 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.