

Varun Gangadharan

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EDUCATION

University of Illinois Urbana-Champaign

Master of Science in Computer Science

Champaign, IL

Aug. 2023 – May 2024

University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science; GPA: 3.73/4.0

Champaign, IL

Aug. 2020 – May 2023

- Relevant Courses: Algorithms, Applied ML, AI, Database Systems, Web Programming
- Extracurriculars: Active member of ACM & Reflections Projections, Tutor for CS courses.

EXPERIENCE

Fullstack Software Engineer Intern

Flow AI | Python, ReactJS, SQL, Django, AWS

May 2023 – Aug. 2023

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.

Software Engineer Intern

Leidos | Python, Kornshell, Bash, Docker

Jun. 2022 – Aug. 2022

Gaithersburg, MD

- Led the effort in migrating a backend API call system in order to deprecate a legacy service of 12 years, 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.

Software Engineer Intern

Shop2App | ReactJS, jQuery, Node.js

May 2021 – Aug. 2021

Remote

- Instrumental in the design and development of 6 client applications, increasing 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 revamp 3 main pages, aiding in user retention.
- Seamlessly integrated front-end applications with back-end services through RESTful APIs, resulting in a 17% decrease in API response times and adhering to industry best practices for clean and efficient code.

PROJECTS

FoodSage | React, AWS Lambda, Python

June 2023 – Aug. 2023

- AI-driven nutrition recommender designed to provide personalized dietary plans.
- Boosted customization by 32% using user preferences, dietary data, and health objectives.
- Leveraged React for UI and AWS Lambda for performance, can handle 2,000+ daily users.

GeoSentiment | Python, Tweepy, NLTK, SpaCy

Nov. 2022 – Jan. 2023

- Real-time sentiment analysis tool for Twitter, offering insights on global sentiment trends.
- Enhanced detection by 28% with multilingual analysis using Tweepy and NLP libraries.
- Visualized sentiment data with Matplotlib and Seaborn integration.

UIUC Housing Explorer | React, Node.js, MongoDB

Aug. 2022 – Dec. 2022

- Web platform tailored for UIUC housing searches.
- Crafted with enhanced search capabilities, improving user experience.
- Implemented dynamic filters and a responsive UI for optimal housing exploration.

TECHNICAL SKILLS

Languages: Python, C++, Java, C, JavaScript, HTML/CSS, SQL, Kornshell, Bash, MATLAB, R, MongoDB

Frameworks: Git, AWS, ReactJS, Django, Docker, Kubernetes, Vim