Advait Kushe

Email: Advait.kushe@gmail.com | Cell Phone: 703-994-7414 | LinkedIn: linkedin.com/advaitkushe
GitHub: github.com/AdvaitKushe | Website: bit.ly/Advait-Kushe

EDUCATION

University of Maryland, College Park Expected Graduation: December 2025

Bachelor of Science in Computer Science

Relevant Course Work: Object Oriented Programming, Data Structures and Algorithms, C-Programming in Linux, Compilers, Statistics and Probability, Linear Algebra, Data Science, Networking, Machine Learning

WORK EXPERIENCE

Workday | *Software Engineering Intern,* Pleasanton, CA **May 2024 – August 2024**

- Developed a HashMap based currency conversion algorithm used by 1000+ clients daily
- Optimized search report runtime speed by 22% utilizing multithreading-concurrent Java operations and utilized Tableau to conduct thread dump analysis
- Decreased background report child processing from 2 to 1 through CSV sterilization which improved runtime by 17%

University of Maryland, School of Computer Science | *Teaching Assistant,* College Park, MD **January 2024 – May 2024**

- Taught compiler fundamentals for 200 students in Racket and x86 Assembly for CMSC430: Introduction to Compilers under Prof. David Van Horn

Lincoln Financial Group | *Software Engineering Intern,* Radnor, PA **June 2023 – August 2023**

- Architected the development of a search index through the Kibana interface to migrate data from an S3 bucket to AWS OpenSearch increasing search speed by 28%
- Improved efficiency on a search API that streamlined data from 3 Elasticsearch indices to the user endpoint utilizing Java Spring Boot and Maven
- Spearheaded the use of Hadoop EMR clusters and AWS data pipelines to automate the flow of data from an S3 bucket to an Elasticsearch index

Vanguard Management Tech | *Quality Assurance Engineering Intern*, Fairfax, VA **June 2022 – July 2022**

- Caught over 40 bugs as well as conducted 10 stress tests on developing web applications which revealed fatal security breaches and edge cases

PERSONAL PROJECTS

Chatty | *OpenAI + Flask + React + GraphQL + AWS Amplify*

- Developed a conversational based AI interviewing platform providing real time analysis to users (demo!)
- Employed GraphQL to scrap and filter question information enabling compatibility with over 2000+ unique problems
- Implemented register/sign-in utilizing Bcrypy hash encryption and SQLalchemy
- Reached 200+ users through partnership with UVA Darden and $5K grant from Terp Accelerator

Moji | *HumeAI + Vercel + Supabase + FastAPI + Node.js*

- Developed an AI video conference platform which measures the general emotion of participants and overlays a stream of emoji's which proportionally matches the general sentiment of attendees

FindMyHospital | *REST API + Flask + React*

- Crude predictive modeling tool to calculate the likelihood of receiving a hospital bed in over 5,000 hospitals
- Sorted and displayed 50 hospitals by proximity from a user utilizing quicksort algorithm which relies on geolocation and Python libraries like geoPy and Haversine

MicroOcaml | *A dynamically typed version of OCaml*

- Achieved support for 12 operations including let expressions, binary operations, if statements, recursion, anonymous function calls, nested expressions, boolean functions, and arithmetic functions

TECHNICAL SKILLS

Programming Languages: Java, Python, C, Racket, JavaScript, OCaml, Ruby, SQL, x86, Rust, R

Technologies/Libraries: AWS, HTTP, Superbase, FastAPI, REST APIs, Vercel, OpenAI, HumeAI, Node.js, Unix, Postman, Git, Jenkins, Confluence, HIVE, JIRA, MongoDB, React, Docker, GraphQL, geoPy, Haversine, Kabana

Frameworks: Spring Boot, Flask, Object-Oriented Programming, Continuous Integration/Continuous Delivery, Agile

Certifications: AWS Certified Cloud Practitioner

Accomplishments: 2024 Finalist at the University of Virginia's Entrepreneurship Cup, 2024 Semi-Finalist University of Maryland Pitch Dingman, First Place Prize UMD Terp Accelerator