

AVI MEHTA

628-241-9964 | avim@vt.edu | avimehta.info | linkedin.com/in/mehtavi | github.com/mehta-avi

EDUCATION

Virginia Tech

May 2023

B.S. in Computer Science, GPA: 3.45/4

Relevant Coursework: Object-Oriented Programming, Data Structures, Algorithms, Computer Systems, Human Computer Interaction, Cryptography, Combinatorics, Statistics and Applications, Discrete Math

SKILLS

Languages: Python, Javascript/Typescript, Java, C/C++, Rust, SQL/NoSQL, HTML/CSS, Ruby, Haskell

Technologies & Frameworks: Flask, Bash, Node, Express, React, MongoDB, GraphQL, TailwindCSS, OpenCV

Infrastructure: Linux, Git, Docker, Kubernetes, AWS, Firebase, Heroku

PROFESSIONAL EXPERIENCE

Virginia Tech Department of Computer Science

Blacksburg, VA

Undergraduate Teaching Assistant | Human Computer Interaction

Aug 2022 – May 2023

- Held weekly office hours, assisted the professor in writing test and homework material, and graded exams of 150+ students
- Led discussion sections of 48 students weekly, working through problems interactively

Undergraduate Researcher

Aug 2022 – Dec 2022

- Researched the development of a multi-user communication feature in an extended reality (XR) social network application
- Analyzed user data to identify common communication patterns and pain points within the platform

The Consulting Group at Virginia Tech

Blacksburg, VA

Account Manager

May 2022 – Dec 2022

- Developed a data-driven strategy to rank projects, acquire clients, and optimize onboarding, while successfully managing project timelines and resources and ensuring high levels of client satisfaction

Technology Consultant

Oct 2020 - May 2022

- Conducted M&A due diligence and developed a strategy, focusing on WealthTech, blockchain, and digital banking markets
- Orchestrated a 5G adoption and utilization roadmap of for the medical industry, leveraging exhaustive scientific and market research, and insights from early adopters
- Constructed a cybersecurity system for smart vehicles and conducted A/B testing to evaluate and mitigate vulnerabilities

Blankly Finance (Contrary and RDV backed)

Ann Arbor, MI

Software Engineer Intern

Oct 2021 - May 2022

- Engineered a full-stack scalable registration service with Typescript, Firebase, and Cloud Functions, and wrote unit, integration, and end-to-end tests using Pytest and Cypress
- Leveraged RESTful APIs and web sockets to seamlessly integrate exchanges, boosting the Blankly Package's capacity by 50%
- Built a trading and price monitoring Discord bot through the Blankly API, hosted on AWS EC2 Instances; managed Docker orchestration and containerization using Kubernetes

Brands on Road

Bangkok, Thailand

Software Engineer Intern

July 2020 - Aug 2020

- Improved the internal client onboarding process using React.js and Bootstrap to design and deploy a centralized pipeline
- Automated data migration process from MySQL to MongoDB, using JavaScript, reducing manual data retrieval time by 30%

PROJECTS

ChefMeUp | Senior Design Capstone: React.js, Typescript, Python, Flask, Android Studio

Jan 2023 – May 2023

- Developed a mobile app addressing food insecurity by enabling users to find affordable groceries and recipes nearby
- Implemented a Flask server with search endpoints and API integrations for real-time grocery store and recipe data
- Conducted rigorous user acceptance testing to validate app functionality for optimal user experience
- Awarded the Industry Choice award at the VTURCS symposium

MoodSync: Python, OpenCV, Flask, Javascript

April 2023

- Pioneered a full-stack app of an emotion detection visualizer using OpenCV to track, analyze, and synchronize emotions
- Architected a dynamic music curation system using the Spotify API based on real-time analysis of the user's emotions

Manajira: React.js, GraphQL, Express.js, MongoDB, Apollo Client, Apollo Server

June 2022

- Built agile PM tool employing pagination, sorting, and fragments for enhanced code reusability and data retrieval efficiency