AVI MEHTA

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EDUCATION

Virginia Tech   May 2023

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

Relevant Coursework: Object-Oriented Programming, Data Structures, Algorithms, Computer Systems, Comparative Languages, Computer Organization, 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 and 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
- Lead 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
- Investigated existing XR networking technologies and literature to inform the design and implementation of the feature

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

Consultant   *Oct 2020 - May 2022*

- Conducted M&A due diligence and developed a strategy, focusing on WealthTech, blockchain, and digital banking markets
- Launched an implementation roadmap for 5G utilization within the medical industry based off market research
- Constructed a cybersecurity system for smart vehicles and conducted A/B testing to evaluate and mitigate vulnerabilities

Blankly Finance (Contrary and SVK backed)   Ann Arbor, MI

Software Engineer Intern   *Oct 2021 - May 2022*

- Engineered a full-stack registration service with Typescript, Firebase, and Cloud Functions, and wrote unit, integration, and end-to-end tests using Pytest and Cypress
- Integrated exchanges on the Blankly Package using RESTful APIs and web sockets, increased package 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 client onboarding process using React.js and Bootstrap to design and deploy a centralized pipeline
- Orchestrated the automated data migration process from MySQL to MongoDB using JavaScript, optimizing performance and 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 custom search endpoints and seamless API integrations for real-time display of recipes and grocery store data
- Contributed to the team's success by winning the Industry Choice award at the VTURCS symposium

MoodSync: *Python, OpenCV, Flask, Javascript*   *April 2023*

- Pioneered full-stack development 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*   *June 2022*

- Created a management tool with pagination, sorting, and fragments to enhance code reusability and data retrieval efficiency