

## **EDUCATION**

### ***Master of Engineering in Computer Science***

Virginia Tech, Expected: May 2025 | GPA: 3.90

**Courses:** Software Engineering, Web Development, Software Management

### ***B.S. in Computer Science, Minor in Business Administration***

Rutgers University, Graduated: May 2021

**Courses:** Operating Systems, Software Methodology, AI, Algorithms, Databases, Data Structures

## **TECHNICAL SKILLS**

**Programming Languages:** Java, JavaScript, TypeScript, Python, C

**Web Development Tools:** React, HTML, CSS, Material UI, Figma, Formik, NodeJS, ExpressJS

**Database and Cloud Services:** MySQL/RDBMS, MongoDB, Amazon Web Services (AWS)

**Development Tools and Project Management:** Agile Software Development, Android Development, Scrum, Kanban, Notion, Git, Postman.

## **PROFESSIONAL CERTIFICATES**

AWS Cloud Practitioner IBM Data Warehouse: Introduction to Data Engineering Google Certificate: Prepare Data for Exploration

## **TECHNICAL EXPERIENCE**

### **Graduate Research Assistant at Virginia Tech | January 2024 - Present**

- Review, summarize, and analyze research papers to identify common themes and issues related to the teaching of **Parallel Distributed Computing** concepts to undergraduate and high school students.
- Developed a mini-game to teach **Parallel Distributed Computing** concepts in **Java and Javascript**.

### **Software Engineering Intern at Crohn's and Colitis Foundation | September 2021 – March 2022**

- Successfully reduced costs by 45% by implementing **multi-cloud deployment** of the application on **AWS** and **Salesforce**.
- Contributed to outlining the components, architecture, and infrastructure for the **Solution Architecture Document** and **Infrastructure Master Document**.
- Collaborated closely with project managers and fellow engineers to ensure timely completion of the project.
- Led the design of an efficient management tool, and a website to streamline project tracking to increase team productivity by 30%.

### **Java Production Support at Genpact | April 2022 – January 2023**

- Managed updates for web application clients using **Rational Application Developer (IDE)**.
- Successfully integrated branding changes via **Java and JavaScript** enhancements for clients like CVS.
- Collaborated with QA and backend teams for test case designs.
- Implemented a logging mechanism using **Log4j** for log generation in **Java and Javascript** and increasing the efficiency by 20%.

## **TECHNICAL PROJECTS**

### **Stocks Portfolio Management Platform - TradeMinds Playground (JavaScript, React, Material UI, SDLC, Agile, Git, ExpressJS, NodeJS)**

*Developed and implemented a comprehensive financial management platform to provide users with actionable insights and recommendations for top-gaining stocks.*

*The platform facilitates informed decision-making, portfolio diversification, and the maintenance of a balanced and profitable investment portfolio.*

- Set up the frontend workspace structure using **ReactJS** and developed the sign-in and registration page **Material UI**, integrating **Formik** for seamless validation of user inputs.
- Set up the backend server using **Express/NodeJS** and configured the database, including **MySQL** models and table relationships.
- Implemented **RESTful APIs** for user functionalities such as login, signup, and user watchlist and deployed the frontend on **Amplify CI/CD** and backend on **AWS RDS**.
- Implemented caching to improve API performance by 10%.

### **Online BookStore Web Application (TypeScript, React, MySQL)**

*Created and executed an online bookstore platform, allowing users to purchase books from an extensive collection.*

- Designed the application interface using **Figma**, prioritizing user-centric design principles.
- Developed a single-page application with **React**, employing the **useState** hook for efficient state management and used the **useEffect** hook to orchestrate Axios calls.
- Created and managed a **MySQL database** to support robust data storage and retrieval for the application.
- Enhanced data retrieval from the database using **MySQL** queries by 5% optimization.

## **LEADERSHIP EXPERIENCE**

### **Peer Tutor and Mentor, Tech Array Advancing Women in Computer Science, New Brunswick, NJ | January 2021 – May 2021**

- Tutored and mentored students in Java for Introduction to Computer Science and Data Structures.
- Organized and conducted instructional workshops covering various technologies like Flask, React, and Django.
- Guided students in troubleshooting, debugging code issues, fostering skill development, and project success.
- Oversaw and maintained effective communication with the division executive board ensuring smooth operations and collaboration.