TAHMID AHMED

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EDUCATION

University of South Florida, Tampa, FL   **Expected Graduation: May 2024**
B.S. in Computer Science   **GPA: 3.98**
Relevant Courses: Software Engineering, Secure Coding, Software Testing, Analysis of Algorithms, Database Design, Data Structures & Object-Oriented Programming (C++), Programming Concepts(Python), Program Design (C)
Achievements: USF Green and Gold Presidential Awards, USF Dean's List (Fall 2020-Spring 2023)

SKILLS

- **Languages and Technologies**: C++, C#, C, Python, JavaScript, React.js, Angular.js, Node.js, Express.js, React Native, Redux, MySQL, PostgreSQL, Firebase, MongoDB, Postman, Google Cloud, Docker, Kubernetes, HTML, CSS, Version Control

EXPERIENCE

- **Software Engineering Co-op,** *UPS*   *May 2023- Present*
  - Engaged in a dynamic **Agile** environment, actively participating in daily **SCRUM** meetings with cross-functional teams while utilizing **Azure DevOps** for seamless project management and version control
  - Leveraged JetBrains **DotMemory** to analyze memory wastage and implemented efficient algorithms and object pooling techniques in a .**NET C#** application, resulting in a 30% reduction in memory use leading to an improved application performance
  - Demonstrated strong **object-oriented design** skills by introducing loose coupling in UPS software architecture, enabling writing **unit tests** across 13 repositories using **Moq** and **MS Test**, improving code coverage and elevating **SonarQube** releasability score from E to A
  - Optimized service communication by integrating **Google Pub/Sub** into various services using **.NET client library**, ensuring proper synchronization and message handling, resulting in enhanced service responsiveness, and optimized system efficiency

- **Undergraduate Research Assistant,** *Social Computing Research Lab, USF*   *January 2023-Present*
  - Actively collaborated in an **Agile** environment on diverse projects involving full-stack development and artificial intelligence.
  - Utilized **Puppeteer** and **Node.js** to automate end-to-end testing of multiple dashboards, measuring and reporting the time taken to team using **Email.js** on a scheduled basis using **Cron** improving the team's efficiency and ensuring timely bug detection.
  - Developed, trained, and integrated **Dialogflow API** for chatbot using **Node.js** on a **React** website to provide information and improve customer support for interested users

- **Teaching Assistant,** *USF Department of Computer Science*   *August 2022- Present*
  - Organized office hours to assist students with projects in **C programming** and provided support with **Unix** command usage, debugged programming projects, graded exams and provided lessons to clarify understanding of Program Design in a class of 100+ students

PROJECTS

- **EmployedBulls,** *PERN Stack Web Application*   *January 2023-April 2023*
  - Collaborated with a team of 3 developers to design and develop a Full-stack web application that connects students with recruiters to facilitate on-campus recruitment
  - Leveraged **PostgreSQL, Node.js, and Express.js** to develop the backend of the application, ensuring a scalable and secure architecture that enables seamless integration with the frontend and third-party APIs.
  - Utilized **Socket.io** to implement real-time messaging between students and recruiters and integrated **Google Cloud Vision API** to automate the identity verification process, streamlining the registration process.

- **Debug this meme**, *MERN-stack Web Application and Mobile application*   *July-August 2022*
  - Built and designed a full-stack social media web application and mobile application dedicated for programmers to create and share programming-related memes or puns
  - Developed the web application using **React.js** working as the front end and implemented authentication using **Context API** while storing and retrieving data from **MongoDB** managed through a **RESTful** API that is designed by **Node.js** and **Express.js** to serve as the backend with functionality verified through **Postman**
  - Developed mobile application using **React Native**, making use of several React Hooks and third-party libraries and integrated it with **Firebase** Authentication, Firestore, and Storage

- **Other projects-** *Hopeless-less, Uber Eats Clone App, NodeJS Discord Bot Application, Instagram Clone App* and many more

ACTIVITIES & CLUBS

- **Hackathons**: ShellHacks, Miami *(Sep 2022)*, Hackabull, USF *(Mar 2022), HackGT, Georgia Tech(Oct 2022)*
- **Competitive Programming**: HackJam Programming Contest 2023, ICPC Regionals,*(Mar 2022, Feb 2023)*
- **Clubs:** Society of Competitive Programmers, *SHPE,* GDSC*(Active Participant)*, TMC *(Executive Officer)*