Kamrul Tarafder

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EDUCATION

Georgia State University — Atlanta, GA
Bachelors of Science in Computer Science — ***Expected Graduation***: *December 2025*

GPA: 4.18/4.3
Relevant Coursework: Machine Learning, Object Oriented Programming, Data Structures, Software Development, Design & Analysis of Algorithms, Operating Systems, Database Systems, Data Science

TECHNICAL SKILLS

Languages: JavaScript, Typescript, Python, PHP, C#, Java, C, R, SQL, HTML/CSS, Shell Script
Frameworks & DBs: ReactJS, Express.js, Flask, React Native, Next.js, PostgreSQL, MySQL, MongoDB, Firestore
Software: AWS EC2, AWS S3, Docker, Git, Unity, Github, Figma, Unix, Jupyter Notebooks
Libraries: Pandas, NumPy, Matplotlib, Seaborn

EXPERIENCE

Solutions Architect Intern — May 2024 – August 2024
Crescent Technology (Cloud Consulting Company) — *Atlanta, GA*
- Engineered system design for AI RAG chatbot with AWS Bedrock, Pinecone, and AWS EC2 for pharmaceutical manufacturing client that saw 500+ queries in the first two weeks in production
- Revamped Crescent's eLogbook SaaS offering using ReactJS and Tailwind CSS, improving UX by reducing friction in the user flow which decreased support tickets by 10%
- Delivered technical demos and solutions to clients, addressing client needs and key pain points

Undergraduate Research Assistant — January 2024 – April 2024
Department of Defense Center for Integrated AI Research at the Edge (CiARE) — *Atlanta, GA*
- Conducted comparative analysis of LiDAR and Photogrammetry 3D scanning methods, providing insights that improved image resolution by 15% compared to original data set
- Enhanced image quality by cleaning distortions and filling image holes with Blender, increasing image accuracy on average by 15-20%

PROJECTS

SpecTackles - 2nd Place HackGT Winner | *Javascript, Firebase, Python, Raspberry Pi* — Sep 2024 – Sep 2024
- Designed and implemented an award winning AR and IoT experience using Snapchat's SnapAR Spectacles, Lens Studio, and Raspberry Pi to control smart home devices with gesture-based interactions
- Integrated real-time communication between SnapAR Spectacles, Firebase, and Raspberry Pi, achieving seamless data flow and device control, enabling users to toggle physical devices such as light switches through AR

Panther Insights | *Next.js, Typescript, Firebase, Firestore, TailwindCSS, HTML, Python* — June 2024 – Present
- Worked in a SCRUM team of six people employing Agile principles, product backlog, and daily standups
- Utilized Next.js for a responsive web application and Firebase for authentication and Firestore for real-time data storage and updates
- Implemented a dynamic star rating system, real-time reviews, and grade distribution charts using Python, improving user engagement and data presentation

Scheduly | *MongoDB, Express.js, React Native, Node.js, Typescript, Expo, Flask, Python* — May 2024 – Present
- Architected a cross-platform mobile app enabling college students to effortlessly coordinate schedules
- Deployed backend web server with a CI/CD pipeline using Github Actions, Docker, and Heroku to ensure streamlined deployment process for testing and production
- Developed robust REST APIs with Express.js and Flask, facilitating seamless communication between a React Native frontend and MongoDB backend
- Designed a NoSQL document database with Mongoose, ensuring efficient data storage and retrieval

LEADERSHIP EXPERIENCE

Cofounder & Head of Software Development — June 2024 – Present
Rising Tech Professional Association (RTPA) – Georgia State University — *Atlanta, GA*
- Developed club website that connected 100+ GSU students, alumni, and faculty with valuable career information by aggregating university career events into a comprehensive calendar view and custom announcements dashboard
- Delegated development tasks to a team of 4 devs by employing the software development lifecycle (SDLC) and building out an extensive product backlog