TUSHAR MISHRA

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EDUCATION

University of Georgia, Athens, GA   **GPA: 3.65/4.00**
Bachelor of Science in Computer Science, Cum Laude, Area of Emphasis: Artificial Intelligence   **Graduated July 2025**
Relevant Courses: Data Structures, Algorithms, AI, Robotics, Software Engineering, Networks, Architecture, HCI
3 x Dean's List, 2 x President's List, **Best Project in Software Engineering CSCI 4050**

SKILLS

Programming Languages: Java, Python, Kotlin, JavaScript, TypeScript, C, C++, SQL, Bash
Web Technologies: React.js, Next.js, Node.js, Spring Boot, Angular, GraphQL, RESTful APIs
Databases: PostgreSQL, MySQL, MongoDB, Cassandra
Cloud & DevOps: AWS (Lambda, RDS, S3), Docker, Kubernetes, Terraform, Azure, GCP
Tools & Systems: Git, GitHub Actions, Jenkins, CI/CD, Elasticsearch, Kibana, Prometheus, Kafka, RabbitMQ, OAuth, Agile/Scrum, Unit Testing, GNN, Transformers, Selenium, LLM API
Certifications: AWS Cloud Practitioner, AWS Solutions Architect Associate, HDI Support Center Analyst/Desktop Tech

WORK EXPERIENCE

Software Engineer Intern
CRST International, Cedar Rapids, IA, June 2024 - August 2024
- **Rebuilt enterprise-facing Capacity Portal frontend** using **Angular (NgRx Store)** and **TypeScript,** improving UI responsiveness by 35% and enhancing user experience for **logistics operations serving 1000+ drivers.**
- **Architected 6 Java Spring Boot microservices** deployed on Kubernetes**, achieving 30% faster API response times and handling 10,000+ daily transportation requests.**
- **Implemented centralized logging infrastructure** with Elasticsearch and Kibana **across 12 containerized services**, reducing production issue resolution time **by 50%** and **improving system reliability for 24/7 operations.**
- **Established Prometheus monitoring** with 25+ custom dashboards**, boosting production issue detection by 40%.**

Lead Undergraduate Research Assistant
LSDIS Lab, University of Georgia, Athens, GA, January 2024 - May 2024
- **Developed AI predictive models** using Transformers and Graph Neural Networks, **improving accuracy by 15%.**
- **Designed optimized SQL schemas and GraphQL APIs in PostgreSQL**, enhancing query performance **by 25%.**
- **Orchestrated 2 ML models** on AWS Lambda, enabling scalable AI-based fact-checking for ChatGPT applications.
- **Refactored data processing pipelines**, reducing processing time by **20%** and improving cloud-based integration.

Technology Support Specialist
CAES, University of Georgia, Athens, GA, March 2023 – December 2023
- Delivered **technical solutions to 1,000+ faculty, staff, and students**, maintaining 80% first contact resolution rate.
- **Resolved 100+ complex hardware, software, and network challenges, driving 25% reduction in recurring issues.**
- **Executed cloud migration initiatives for 6 departments** with Azure, **enhancing data security and system scalability.**

PROJECTS

InboxIQ – Email AI Platform (Next.js, Typescript, Tailwind, Prisma, AWS, Python, SES, NextAuth, Docker, Selenium, AI)
- **Constructed a scalable production-ready email management platform** with **OAuth authentication (Google & Outlook), automating email categorization** and **prioritization for 500+ users.**
- Deployed scalable infrastructure using **AWS Lambda and Docker**, increasing reliability and **reducing operational costs by 30%.**
- Worked on robust **RESTful APIs and integrated webhooks** for real-time data synchronization, **improving efficiency by 25%.**

CareerSync – AI Resume Analyzer (React, TypeScript, Tailwind, Vite, PDF.js, Mammoth, GPT, Chrome API, AWS Lambda)
- Crafted a **Chrome extension** to analyze resumes vs. job descriptions using OpenAI GPT, improving match rate visibility by **85%**.
- Engineered resume parsing capabilities (PDF/DOCX) **using pdf.js and mammoth.js**, enabling seamless **AI input generation**.
- Designed a clean **Tailwind UI with OAuth and custom JS** event handling to deliver fast, interactive UX inside Chrome popup.
- Achieved **100% Lighthouse score** on popup UI and optimized build using **Vite and React SWC for <1s load time**.

Crumb – Social Media App with NFC Friend Feature (React Native, Supabase, RESTful APIs, Expo, TypeScript, PostgreSQL)
- Built a **cross-platform social media app** with real-time posting, authentication, and user profiles, serving **500+ users**.
- Implemented **NFC-based friend-adding** feature with a dedicated PostgreSQL "Close Friends" database for social interactions.
- Integrated image uploading, push notifications, and real-time updates with **95% delivery rate and <1s real-time updates.**
- **Accelerated development with Expo** for cross-platform testing, reducing mobile release time for **Android and iOS by 40%.**