Ekagra Gupta   Software Developer Intern

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EDUCATION

B.S. Computer Science   Expected Graduation: May 2026
Arizona State University | Tempe, AZ   GPA: 3.93/4.0
Coursework: Data Structures and Algorithms, Software Engineering, Operating Systems, Object-Oriented Programming, Machine Learning, Digital Design, Cloud Computing, Cybersecurity.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, C, C#, Ruby, TypeScript, HTML, CSS, Golang, Swift, Bash, Shell, Rust
Frameworks & Libraries: Next.js, ReactJS, Bootstrap, Angular, Tailwind, Framer Motion, Flask, .Net, PyTorch, TensorFlow
Tools, Databases, and Software: MongoDB, MySQL, Linux, Unix, Ubuntu, Docker, Salesforce, GitHub, Git, AWS, Figma, VirtualBox

WORK EXPERIENCE

Software Engineering Intern | Edupoint Educational Systems LLC   08/2024 - Present
- Optimized authentication workflows by creating efficient **SSO scripts with ReactJS and Express.js** while integrating **MongoDB databases**; delivered seamless login experience and enhanced accessibility for **over 5.5 million students.**
- Implemented a comprehensive student attendance tracking feature in the LMS using **C# (.NET) and SQL databases**.

Summer Research Assistant | Carnegie Mellon University   06/2024 – 08/2024
- Analyzed collaboration in Machine Learning pipelines by reviewing GitHub repositories and studying **model deployment in open-source projects** using **Python, Git, and Docker** to identify integration challenges between data scientists and software engineers.
- Developed tools using **Flask, TensorFlow, and REST APIs** to **automate ML model testing** and document expectations, improving cross-team communication and reducing production deployment errors by 25%.

IT Consultant | Enterprise Technology | Arizona State University   03/2023 – 08/2024
- Developed automation scripts in Python and conducted regular software updates to ensure smooth functioning of hardware and software systems, resulting in a **20% increase in system efficiency** and reduced manual intervention.
- Diagnosed and **resolved over 200 complex technical issues** on classroom computers running Windows and macOS systems, which enhanced faculty productivity and increased user satisfaction ratings by 20% in just one semester.

Software Engineering Intern | Carrier Air Conditioning India   05/2021 - 05/2022
- Designed and implemented **SQL and C++ based data management systems** to accurately track sales, returns, and inventory, enhancing stock management practices and reducing record discrepancies by 8%.
- Performed detailed code reviews and systematic debugging to optimize software algorithms, enhancing project efficiency and reliability, which contributed to **annual operational cost savings of about $110,000**.

Relevant Projects

ML/AI Web App: FocusTime AI| MediaPipe ML, TensorFlow, Flask, React
A full-stack, AI-driven web app developed with **Python and JavaScript, using React, Flask, and PostgreSQL**. The app integrates **MediaPipe Holistic** for extracting **471 key points** (face, hand, body), and leverages **TensorFlow for real-time gesture** analysis to detect and address procrastination during study sessions.

Chess Arena | C++, Node.js, React, CSS, HTML|
Developed a full-stack **web-based chess application, utilizing JavaScript** for dynamic frontend interactions and **Node.js and C++** for robust backend game logic. Successfully deployed and managed the application through Vercel, achieving 99.8% uptime.

ResQ |Python, NodeJS, ExpressJS, MongoDB, Flutter, Google Maps API | Smart India Hackathon
Developed a disaster management app for efficient collaboration among rescue agencies, utilizing Python and Node.js for the backend, Flutter for the frontend, and Google Maps API for real-time location tracking, reducing rescue response times by 30%.

Leadership Experience and Certificates

Technical Officer | Google Developer Student Club   05/2024 - Present
Lead Software Developer | EPICS | ASU x OpenAI   01/2024 – 08/2024
Machine Learning Specialization | Stanford University| Coursera   05/2024
Cloud Developer Professional | Google Cloud | Coursera   03/2024
Teaching Assistant | Fulton School of Engineering | Arizona State University   01/2023 – 05/2023