

Ekagra Gupta

New York, NY | +1 (602)-515-5268 | [Portfolio](#) | egupta3@asu.edu | [LinkedIn](#) | [GitHub](#)

EDUCATION

Arizona State University, Tempe, AZ

May 2026 (Expected)

Bachelor of Science in Computer Science

GPA: 4.0/4.0

Relevant Courses: Data Structures and Algorithms, Software Engineering, Operating Systems, Object-Oriented Programming, Database Management, Machine Learning, Cybersecurity, Distributed Systems.

WORK EXPERIENCE

Edupoint Educational Systems

Phoenix, AZ

Software Engineer Intern

August 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.

Carnegie Mellon University

Pittsburgh, PA

Software Engineer Research Assistant

June 2024 – August 2024

- Analyzed collaboration in **Machine Learning pipelines** by reviewing GitHub repositories and model deployment in open-source projects using **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%.

Arizona State University

Tempe, AZ

Software Engineer

March 2023 – June 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.

Carrier

Remote

Software Developer Intern

May 2021 – May 2022

- Designed and implemented **Python**, **SQL** and **C++** based **data management systems** to accurately track sales, returns, and inventory, enhancing stock management practices and reducing record discrepancies by 18%.
- 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.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, Typescript, HTML, Go, CSS, C, C#, Swift

Frameworks & Libraries: React, Next.js, Bootstrap, Angular, Flask, .Net, PyTorch, NumPy, Tailwind CSS, TensorFlow

Tools, Databases, and Software: MongoDB, MySQL, Linux, Ubuntu, NOSQL, Docker, Git, AWS, Figma, Oracle, VirtualBox

PROJECTS

FocusTime AI | MediaPipe ML, TensorFlow, Flask, React

- An **AI-powered** web app built with **React**, **Flask**, and **PostgreSQL**. Integrated MediaPipe Holistic to extract **471** key points and used **TensorFlow** for **real-time gesture analysis**, detecting and addressing procrastination during study sessions.

ResQ | Python, NodeJS, ExpressJS, MongoDB, Flutter, Google Maps API

- Developed a disaster management app for efficient collaboration among rescue agencies, utilizing **Python**, **Node.js**, **Flutter**, and **Google Maps API** for **real-time location tracking**, reducing rescue response times by 30%.

Operating System Kernel | C++, Linux, Ubuntu, C, Python, ASM x86_64

- Built an operating system kernel to implement **memory management** for virtual-to-physical **address translation in Linux**. Capable of running **ELF user programs on multicores** and navigating **multi-level page tables and swap** operations.

Chess Arena | C++, Node.js, React, CSS, HTML

- Developed a **full-stack web-based chess application**, utilizing **React** for dynamic frontend interactions and **Node.js** and **C++** for robust backend game logic. Deployed and managed the application through Vercel achieving 99.8% uptime.

CERTIFICATES AND RELEVANT EXPERIENCE

Machine Learning Specialization | Stanford University | Coursera

Meta Full Stack Developer Professional | Meta | Coursera

Lead Software Developer | EPICS Program | ASU x OpenAI