Amartya Dey

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SKILLS

- **Programming Languages:** Golang, Python, Java, SQL
- **Frameworks & Tools:** Flask, Netflix Conductor, Docker, Kubernetes, CI/CD, Redis, RESTful APIs, Jenkins, Prometheus
- **Cloud & Infrastructure:** Azure, Kafka, RabbitMQ, Microservices Architecture, AWS (basic), Terraform, Kubernetes
- **Version Control:** Git, GitHub, Azure DevOps, GitLab

EDUCATION

CMR University   2018 - 2022
B.Tech in Computer Science and Engineering   **CGPA: 8.63**

EXPERIENCE

Software Development Engineer | WeCredit   Nov 2023 – Present

- Spearheaded the creation of highly scalable, high-performance backend services using **Golang**, **Kafka**, **RabbitMQ**, and **Redis**, reducing system latency by **30%**.
- Engineered **microservices architectures**, improving API response times by **25%** and enhancing system fault tolerance.
- Built **event-driven architectures** integrated with messaging queues, increasing real-time data processing throughput by **50%** while ensuring scalability and high availability.
- Collaborated with cross-functional teams (DevOps, product managers, data scientists) to scale infrastructure by **30%** in response to increased user traffic.
- Optimized backend infrastructure and established CI/CD pipelines, reducing operational costs and increasing deployment efficiency by **20%**.
- Established **monitoring and alerting** solutions using tools like **Prometheus**, ensuring early detection of system anomalies and minimizing downtime.
- Orchestrated the migration of legacy systems to modern containerized applications using **Docker** and **Kubernetes**, improving system scalability and resource optimization.

Software Engineering Intern | NatWest Group   Mar 2023 – Sept 2023

- Built backend modules for the **TAM portal** using **Python** and **Flask**, optimizing authentication speed by **15%** through query handling and caching.
- Contributed to **API integrations** to enhance service connectivity and enable seamless data exchange across platforms.
- Participated in **code reviews** and testing, ensuring high security and readiness for production.
- Collaborated with cross-functional teams to design and deploy features for internal financial systems, ensuring compliance with industry standards and regulations.

Android Developer Intern | Gnani.ai   Aug 2022 – Sept 2022

- Maintained and improved **Android applications**, optimizing RESTful API integrations, enhancing UI/UX, and driving a **25% increase in user engagement**.
- Collaborated on sprint planning, optimizing backend services that boosted app stability and overall user satisfaction.
- Enhanced app performance by refactoring inefficient code and optimizing database queries, reducing app loading time by **20%**.

Android Developer Intern | Yenveez   Mar 2022 – May 2022

- Created and deployed new features for **Android applications**, improving performance and increasing **user retention by 15%**.
- Incorporated third-party libraries and APIs, enhancing app functionality and user experience.
- Actively participated in design discussions, proposing improvements that enhanced usability and reduced app crashes by **10%**.

PROJECTS

Portfolio Personal Web Project

- I developed a live web application, using a full-stack approach. On the backend, I utilized Python and Flask to create a robust server, while the frontend was designed using HTML, CSS, and JavaScript for a user-friendly interface. To make the application accessible to users, I deployed it on a DigitalOcean Droplet running Ubuntu with an Apache web server.
- Additionally, I integrated Apache MySQL as the database to efficiently store and manage data. This project allowed me to demonstrate my skills in web development, server management, and database integration, showcasing my ability to create and deploy functional web applications.

CERTIFICATIONS & PROFILES

- Software Developer (Backend - Java, DSA) - Scaler Academy
- Android Java Masterclass - Udemy (Tim Buchalka)
- Core Java Programming - Udemy (Abdul Bari)