

Bhavya Kandhari

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Education

Arizona State University – MS in Computer Science, GPA: 3.93/4.00

August 2023 – May 2025

Amity University Noida – BTech in Computer Science, GPA: 8.17/10

August 2017 – May 2021

Skills

Languages: JavaScript, TypeScript, Golang, Python, SQL

Frameworks & Libraries: React.js, Next.js, TailwindCSS, Node.js, Express.js, FastAPI, Pandas, NumPy, Matplotlib

Cloud & DevOps: AWS, Docker, Kubernetes, Git/GitHub, Linux, CI/CD, GitHub Actions, Prometheus, Grafana

Databases & Tools: PostgreSQL, MySQL, Redis, Power BI, Tableau, AWS QuickSight

Experience

Software Engineer, Ira A Fulton Schools of Engineering – Tempe, AZ

June 2024 – April 2025

- Supported 400+ students per semester by developing backend tooling in Python and C# for scalable assignment evaluation in distributed computing labs.
- Validated 200+ student projects by engineering automated test pipelines using Pytest, testing functional correctness, runtime performance, and edge case resilience.
- Enhanced student understanding by facilitating debugging workshops and leading system architecture walkthroughs on RESTful services and distributed system patterns.

Associate Software Engineer, Ernst & Young (EY), GDS – Kolkata, India

September 2021 – July 2023

- Accelerated daily IP enrichment processes by orchestrating AWS Redshift, Glue, Lambda, and Secrets Manager services, reducing processing time by 1.5 hours.
- Eliminated irregular network activity detection by architecting time-series anomaly detection models, improving incident investigation accuracy by 20%.
- Executed large-scale data processing requirements by engineering ETL pipelines with AWS Glue for 50M+ daily records and created QuickSight dashboards for monitoring.
- Enhanced vulnerability remediation efficiency by deploying NLP clustering models using PySpark and K-Means, organizing 10M+ records into 10,000+ categories.
- Fortified threat intelligence capabilities by establishing automated CI/CD pipelines connecting NVD and CAPEC databases, correlating 65% of CVEs to MITRE ATT&CK framework.

Projects

GoFlix - RESTful Movie API

github.com/bkandh30/GoFlix

- Architected REST API with Golang and JWT auth; supporting 100+ concurrent users and 8+ goroutines.
- Integrated PostgreSQL, database migrations, secure password storage, error handling, and graceful shutdown.
- Implemented CORS, structured logging, email workers, and real-time metrics at /debug/vars.

Async Text Summarization Microservice

github.com/bkandh30/fastAPI-summary

- Engineered production-ready async microservice using FastAPI, Docker, Uvicorn, and Tortoise ORM.
- Designed 2-container Docker Compose setup with versioned images hosted on GitHub Packages.
- Developed comprehensive testing suite with 100% test coverage; CI/CD via GitHub Actions.

Git Implementation

github.com/bkandh30/git-implementation

- Rebuilt Git's object model: blob, tree, commit, and tags with SHA-1 hashing and zlib compression.
- Built self-contained Git engine with core commands (write-tree, commit-tree, cat-file).
- Developed HTTP remote cloning using Git Smart Protocol v2 with packfile parsing and delta resolution.