NIKITHA KAMBHAMPATI

Boston, MA| 857-465-9951 | kambhampati.ni@northeastern.edu | Portfolio | LinkedIn | GitHub

EDUCATION

Northeastern University, Boston, MA | **GPA:** 3.85   **Expected** May 2025
Master of Science in Software Engineering Systems
Relevant Course work: Web Design and User Experience Engineering, Object Oriented Design, Data Management and Database Design, Program Structures and Algorithms, Network Structures and Cloud Computing, Advanced Big Data and Indexing Techniques

Jawaharlal Nehru Technological University, Hyderabad, India | **GPA:** 3.70   Aug 2021
Bachelor of Technology in Computer Science and Engineering
Relevant Course work: Operating Systems, Software Engineering, Web Technologies, Cloud Computing, Distributed Systems, Advanced Algorithms

TECHNICAL SKILLS

Languages   : Python, Java, JavaScript, TypeScript SQL, C, C++
Frontend   : HTML, CSS, Bootstrap, Angular, React.js
Backend   : Flask, Node.js, Express.js, REST API
Tools & IDEs   : Git, Eclipse, Visual Studio Code, Bash, Postman, PyCharm, JIRA, Swagger, Jupyter, GitHub
Cloud and DevOps   : CI/CD, Terraform, Ansible, AWS (EC2, S3, Lambda, API Gateway, CloudWatch), Jenkins, Kubernetes, Docker
Databases & OS   : MySQL, SQL Server, ELK stack, MongoDB, JSON, PostgreSQL, Windows, Linux, macOS

PROFESSIONAL EXPERIENCE

Seneca Global IT Services Private Limited , India   Aug 2021 - July 2023
Software Engineer
Enterprise Platform Team
- Contributed to Agile development for a cybersecurity client by crafting solutions, resolving 50+ issues, and achieving 92% code coverage
- Managed Python-based reporting in Docker, using Jinja templates for data visualization, and automated uploads to AWS S3, boosting report generation efficiency by 88%
- Integrated 2 SaaS applications, processed firewall logs using the ELK Stack and Java, and stored them in Elasticsearch to identify threats
- Leveraged Chalice, a serverless python micro framework to track delivery status of more than 300,000 emails monthly
- Collaborated cross-functionally to work on an event-driven architecture to capture UI triggers, developing 9 AWS Lambda and SQS handlers for 10,000 daily push notifications

HR Management System
- Developed responsive HR portal web pages and SPAs using Angular, achieving 95% test coverage including end-to-end testing
- Programmed 10+ efficient Flask-based RESTful APIs and microservices for Employee Management, handling 1500 requests per minute

Software Engineer Intern   March 2021 - July 2021
- Acquired knowledge from trainings in SDLC, MVC architecture, Agile methodologies, coding practices, and Git
- Devised Firebase-authenticated web app with Angular frontend, Flask backend, PostgreSQL integration, and CI/CD using Jenkins

ACADEMIC PROJECTS

Eco Well (MERN Stack | Redux | Mongoose)
- Led React front-end for a Nutritional Analysis web app, with state management, Redux integration, reusable components using React props, and hooks for user interaction
- Designed scalable RESTful APIs with Express.js, using domain-driven design, Mongoose for MongoDB schema
- Utilized third-party APIs, enabled PWA for offline access, and implemented analytics with Chart.js and personalized product recommendations

Absolute Zero (Java | Google Maps API | Graph Algorithms)
- Engineered data pipeline using OpenStreetMap API to map Boston streets into a weighted graph for accurate distance calculations
- Deployed GMaps API with JavaFX for dynamic UI, enabling real-time updates and offline route map downloads
- Implemented Dijkstra's, Breadth-First Search, A-star algorithm, and Bi-directional Search algorithms for graph-based pathfinding, managing a network with 690K nodes

Railway Management System (MS SQL | Tableau | Angular)
- Constructed a SQL Server-based Train Management Database System, implementing stored procedures, triggers, views, Column-Level encryptions and UDFs
- Created interactive Tableau dashboards and reports for analyzing train operations and passenger metrics, offering actionable insight
- Formulated a responsive using Angular, enabling streamlined CRUD operations to efficiently update the database

ACHIEVEMENTS

- Awarded **Bravo** Instant Recognition for substantial impact on a critical component of project   March 2023
- Awarded **RISE** Instant Recognition for integral contribution to delivery excellence   Sep 2022