

## NIKITHA KAMBHAMPATI

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### SUMMARY

Graduate student with 2 years of hands-on experience developing scalable web applications and integrating cloud-based solutions. Proficient in Python, Java, JavaScript, React, AWS, and CI/CD. Seeking a fall 2024 software engineering internship/full-time opportunities starting May 2025 to apply web development and cloud computing skills effectively

### 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*

### 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, reusable components, 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
- Implemented Dijkstra, BFS, A-star, and Bi-directional Search algorithms for efficient route planning, handling up to 690K node locations
- Deployed GMaps API with JavaFX for dynamic UI, enabling real-time updates and offline route map downloads

**Railway Management System (MS SQL | Tableau | Angular)**

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

**Vessel Detection from Space Borne Images (Machine Learning | Python | Instance Segmentation)**

- Built a ResNet-50 classifier for vessel detection in satellite imagery, achieving 93.75% accuracy
- Employed Mask R-CNN for precise image masking on a dataset of 480K images, enhancing detection reliability for complex backgrounds

### ACHIEVEMENTS

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

**March 2023**

**Sep 2022**