Atharva Deepak Kamble

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Moving to SF in 1.5 months

Education

Northeastern University	*Sep 2023 - May 2025*
Master of Science, CS + Information Systems (Graduated magna cum laude)	Boston, MA
University of Mumbai	*Aug 2018 - May 2022*
Bachelor of Engineering, Electrical Engineering & Computer Science	Mumbai, IN

Relevant Coursework

Algorithms • Web Development • Computer Networks • UNIX/LINUX Fundamentals • Computer Architecture • Operating Systems

Industry Work Experience

Graduate TA (Algorithms & Web), Northeastern University   *(Boston, MA) Sep 2024 - May 2025*
- Instruct students in Typescript, Python, Git and the Agile methodology through 1-on-1 sessions and online communications.

Software Engineer 1, Cognizant   *(Mumbai, IN) Aug 2022 - Jun 2023*
- Built and maintained an in-house React component library with 28+ reusable and themeable UI elements. Used by 5+ teams to improve development speed and maintain visual consistency.
- Built a payments app for internal stakeholders by integrating Stripe using React, Next.js, Apache and AWS, supporting 40+ local payment gateways and 130+ currencies.
- Developed pixel perfect UI as per wireframes from the UX design team for OneCognizant (company-wide appstore). Built in React, Tailwind, SCSS and Typescript.
- Write integration tests with Playwright and React Testing Library to validate end-to-end user workflows - ensuring 90%+ test coverage.
- Developed a well documented Python module that simplified application deployment workflow that automates containerization with Docker and Terraform resulting in a one-click deployment solution.
- Refactored a monolithic app into modular Python microservices, enabling service-specific deployments and minimizing downtime during updates.

Software Engineer (Founding Engineer), Raftlabs   *(Remote) Apr 2021 - Aug 2022*
- Developed WCAG friendly websites for a supply chain analytics tool, optimizing delivery schedules and inventory management with React, and Nest.js for backend. Used the in-browser IndexedDB for local caching resulting in extremely fast user experience.
- Led the development of a proof of concept for an efficient coupon distribution system in React, Node.js and PostgreSQL that later handled 50K+ consumers.
- Implemented an automated CI/CD pipeline using GitHub Actions workflows and Python to schedule blog posts for the marketing team - resulting in an efficient workflow with no manual overhead.
- Integrated Meta's webhooks with Shopify and Node.js to help viewers buy products by commenting codes in Facebook live streams.
- Supported development on strengthening user authentication with OAuth, to make the login workflow for customers easier.

Software Engineering Portfolio

Model-0 - Platform as a Service (Next.js, React, Typescript, AWS, Python)   github.com/athkdev/model0
- Full stack web app for creating and deploying LLM chatbots with AWS SageMaker (alternative to Google Vertex AI) providing integration for developers in less than 4 minutes.
- Set up HTTP Apache server with Amazon EC2 to handle load balancing and secure encryption by setting up a SSL certificate.
- Developed a robust REST API with authenticated routes for communicating with SageMaker API to manage creation, and tuning of ML models. Create permissions in Linux for Apache server by adding it to the current user group.
- Configured a reverse proxy between the Apache route traffic from web and localhost for serving a dynamic Next.js app.
- Built a GitHub actions CI/CD pipeline that deploys code on an EC2 instance automatically once code is pushed to GitHub.

AI Chatbot for multiple industries (React, JS, Node.js, NextJS)   github.com/athkdev/legacytheapp
- Chatbot-powered full stack app designed for mental health counselors to make informed decisions while actively counseling.
- Extracted NLP insights from a dataset of 3000+ counsellor-client sessions and stored them in PostgreSQL database for filtering.
- Integrated an OpenAI-powered chat that is pre-trained to respond like a counsellor with guided conversations to improve accessibility.

Asynchronous Web crawler   github.com/athkdev/crawler
- Highly performant web crawler in Java to crawl the web asynchronously and store them in Neo4j graph database.
- Applied design principles for a scalable and low-latency architecture. Store URLs in Neo4J database concurrently in a graph format.
- Utilised Java's CompletableFuture API to achieve concurrency and parallelism. Benchmarked at 730 URLs per second.
- Implement PageRank algorithm to rank URLs that are most frequently come across similar to Google's search engine.