

# Atharva Deepak Kamble

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[GitHub](#) • [LinkedIn](#) • [Portfolio](#) • Boston, MA (Open to relocation)

857-200-4661

## Education

### Northeastern University

Master of Science, Software Engineering

Relevant courses: Algorithms, Linux/UNIX, Web and API development, Object Oriented Design in Java, Design patterns, Operating Systems

Boston, MA

Sep 2023 - Expected Apr 2025

### University of Mumbai

Bachelor of Engineering, Computer Engineering

Relevant courses: Programming in C, Object Oriented Design, Databases, Computer Networking & Architecture, Big Data, Image Processing

Mumbai, IN

Aug 2018 - May 2022

## Work Experience

### College of Engineering, Northeastern University

Graduate Teaching Assistant (3D rendering and graphics)

Boston, MA

Sep 2024 - Present (8m)

- Instruct students in HTML, CSS, JavaScript, C#, Git, GitHub and the Agile methodology through 1-on-1 sessions and online communications.
- Run weekly office hours, breaking down tough concepts and debugging live for 25+ students, including pair programming when necessary.
- Produce YouTube tutorials to simplify graphics, programming, and AI, extending learning resources to a wider audience. [Example](#)
- Deliver and gather supplementary learning materials and resources to reinforce complex programming concepts and fundamentals.
- Design and administer exams via Canvas, streamlining assessments with automated grading and detailed feedback.

### Cognizant

Software Engineer I - Full Stack

Mumbai, IN

Aug 2022 - Jun 2023 (11m)

- Built a low-latency payments API by integrating Stripe using React, Python (Django), Apache and AWS, supporting 40+ local payment gateways and 130+ currencies.
- 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.
- Migrated monolithic codebases to Python microservices, achieving 99.9% uptime SLA by ensuring zero downtime for unaffected services during system updates.
- Pioneered and maintained an in-house React component library featuring 28+ reusable, styleable components, accelerating UI development and ensuring design consistency across projects.
- Developed interactive web interfaces for OneCognizant (the company-wide appstore) with React, Tailwind, HTML, CSS and Typescript.

### Raftlabs

Software Engineer (Founding Engineer)

Remote

Apr 2021 - Aug 2022 (1y 4m)

- Revamped a financial loyalty app for the Bank of Ireland using React, GraphQL, Python (Django), and Docker to streamline revenue tracking and help customers gain rewards.
- Developed a supply chain analytics tool for an Irish plumbing agency, optimizing delivery schedules and inventory management with scalable Java, React, and Redis for caching resulting in reducing a 200ms API request to just 4ms.
- Integrated Meta's webhook function with JavaScript and Shopify API to help viewers buy products by commenting codes in Facebook live streams.
- Coded a proof of concept for an efficient coupon distribution system in Typescript, Node.js and PostgreSQL that could handle 2000 requests per second.
- Implemented an automated pipeline using Jenkins CI/CD and Python to schedule blog postings, enhancing workflow efficiency and optimizing content for search engine visibility.

## Projects

### Model-0 - Infrastructure as a Service

[github.com/athkdev/model0](https://github.com/athkdev/model0)

- Full stack web app for creating and deploying large language models (LLMs) with AWS SageMaker providing integration in less than 2 minutes.
- Setup HTTP Apache server on Amazon EC2 instance to handle swift load balancing and secure encryption by setting up a SSL certificate.
- Developed a robust REST API for communicating with AWS SageMaker API to manage creation, and tuning of ML models.
- Built with Next.js, React, REST API, Typescript, MongoDB, AWS SageMaker and AWS EC2.

### Mental Health Counseling AI Chatbot

[github.com/athkdev/legacytheapp](https://github.com/athkdev/legacytheapp)

- Chatbot-powered full stack app designed for mental health counselors to make informed decisions while actively counseling. Deployed [here](#).
- Extracted NLP insights from a dataset of 3000+ counsellor-client sessions and stored them in PostgreSQL database for filtering and pagination.
- Integrated an OpenAI-powered chat that is pre-trained to respond like a counsellor with guided conversations to improve accessibility.
- Built with OpenAI, Next.js, React, Typescript, Node.js, Python and PostgreSQL.

## Technical Skills

Frontend

React, Typescript, JavaScript, Next.js, HTML5, CSS, C++, Webflow, Wordpress, JQuery, Tailwind, Three.js

Backend & Databases

Python, Flask, Django, Go, Java, Spring Boot, SQL, GraphQL, MySQL, MVC API design, Bash, npm, HTTP, TCP/IP

Systems

Linux (Fedora and Ubuntu), Windows NT, Docker, Terraform, CI/CD, GitHub Actions, REST APIs, Namecheap, Jenkins, Git

Data & AI

ETL Pipelines, AWS EC2, AWS SageMaker, LangChain, OpenAI, Pandas, Numpy, Matplotlib, Plotly, PyTorch, Apache Kafka

Testing

Selenium, Cucumber, Jest, Mocha, JUnit, Cypress, Postman, Jasmine, Wireshark monitoring, Travis CI