

Apurva Khatri

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EDUCATION

Northeastern University, Boston, Massachusetts

Master of Science - Computer Science

August 2024

Major courses: Data Structures & Algorithms, Web Development, Object-Oriented Programming

Vellore Institute of Technology, Vellore, India

June 2020

B.Tech - Computer Science & Engineering

WORK EXPERIENCE

QuantUniversity, Full Stack Developer

October 2024 – *Present*

- Developed a Research Assistant Platform with features like Course, Lecture (outlines, slides, videos, and assessments) and Podcast Creation (PDFs to conversational podcasts) to streamline content creation and enhance learning experiences.
- Designed the frontend using ReactJS and MUI Framework and built the backend with FastAPI, integrating OpenAI APIs for automated content generation and MongoDB for efficient data management.

Bayer, Software Developer Intern

June 2023 – November 2023

- Developed a modularized **Python package** for Continuous Integration (CI) operations, streamlining existing components and integrating new features, successfully meeting the requirements of **2 engineering teams**.
- Engineered a **custom library** on top of the TPM Software Stack (TSS) to **securely store credentials**, reducing API vulnerability and enabling compliance with **FDA security guidelines**.

ICICI Lombard, Software Developer

January 2020 - August 2022

- Revamped technology infrastructure of 20+ microservices to **AWS**, increasing availability by 12.5% & cutting deployment time from 3 hours to 20 minutes
- Architected a **centralized logging** using ELK stack to enable real-time monitoring and analysis of application and infrastructure logs, handling a daily intake of **5-6 GB of data**.
- Led & mentored a cross-functional scrum team of 10 support engineers** in building & designing Kibana dashboards to free up software engineering team's bandwidth to focus on feature development & bug fixes.
- Built dashboards to monitor production issues, enabling quicker identification and resolution of bugs.

OPEN-SOURCE CONTRIBUTIONS

[jupyterlab/jupyter-ai](#)

- Enhanced** the Generative AI chat assistant to export conversations to a markdown/text file. Issue number: [#460](#)

[Bloomberg/memray](#)

- Published code coverage reports for C++ and Python for each CI, accessible from the PR. Issue number: [#354](#)
- Added support** for memray to report its own version. Issue number: [#417](#)

[Pypa/readme-renderer](#)

- Migrated** package metadata to PEP 621 pyproject.toml. Issue number: [#284](#)

PROJECTS

Stocks Trading Application – Java, Java Swing, JUnit

- Designed in MVC architecture adhering to key object-oriented principles and design patterns, such as Command, Facade, and Builder

Learning Management System – React.js, Redux, Node.js, TypeScript, MongoDB

- Implemented a full-stack website to streamline course management, enhance the learning experience, and provide comprehensive tools for both faculty and students.
- Deployed the application to Heroku, Netlify and open-sourced to GitHub.

ServerLess LLM Application – Python, Amazon Bedrock, AWS Lambda

- Leveraged Amazon Bedrock to create an event driven pipeline to use LLM to process audio recordings of customer interactions.

TECHNICAL SKILLS

Languages & Databases Python · C/C++ · C# · Java · JavaScript · TypeScript · Scala · MySQL · MongoDB

Technologies React · Django · RESTful APIs · Git · Maven · Linux · .NET · JUnit · MapReduce

DevOps & CI/CD Docker · Jenkins · JFrog · Elasticsearch · Logstash · Kibana · AWS (ECS, S3, Bedrock)