Rohit Awate

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Availability: May to December 2022

EDUCATION

Northeastern University, Khoury College of Computer Sciences — Boston, MA
Candidate for Master of Science, Computer Science — GPA: 3.83/4 — May 2023
Relevant Courses: Algorithms, Machine Learning, Foundations of Artificial Intelligence, Program Design Paradigms

University of Pune — Pune, India
Bachelor of Engineering in Computer Engineering — GPA: 9.41/10 — May 2020
Relevant Courses: Data Structures and Algorithms, Design and Analysis of Algorithms, Object Oriented Programming, Database Management Systems, Data Mining and Warehousing, Systems Programming and Operating Systems

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, Go, C/C++, JavaScript, HTML, CSS
- **Frameworks**: Node.js, React, Express.js, Flask, Django, JavaFX
- **Databases**: PostgreSQL, MySQL, SQLite, MongoDB, Redis, Hadoop
- **Miscellaneous**: REST APIs, Linux, Git, Docker, Apache Airflow

WORK EXPERIENCE

RedCarpet, Pune, India — Dec 2020 – Jun 2021
Software Engineer Intern

- Built and released a new, high-performance ledger written in **Python** and **PostgreSQL** for handling high-volume credit card transactions which replaced the legacy system with a modern, scalable solution.
- Integrated new payment gateway and virtual account transfers system into existing payments infrastructure in less than a week thereby reducing the per transaction cost to customers and the company on average by 100x.
- Developed and integrated a new, cryptographically secure authentication system to maintain compliance with rapidly changing government regulations.
- Resolved numerous critical issues in production to mitigate impact to customers and prevent any regulatory action.
- Entrusted by co-founder to conduct technical interviews to hire talent that best fits the technical and work-intensive demands of a fast-growing startup.

NOTABLE PROJECTS

CopperVM — July 2020 – Feb 2021

- Built a bytecode virtual machine in **modern C++** by following Robert Nystrom's Crafting Interpreters.
- Learned about recursive descent parsers, design patterns, tree walking interpreters and bytecode virtual machines.
- Implemented support for a sensible, opinionated subset of the JavaScript language.

Privacy Policy Summarization and Unfair Clause Detection — Aug 2019 – May 2020

- Led a team of 4 for engineering capstone research project with the mission to help people make a more informed decision before accepting privacy policies and to improve performance and accuracy of existing techniques.
- Developed a browser extension using **JavaScript** that can classify clauses from privacy policies using deep learning into relevant categories and also check whether they are unfair using **Python** and **TensorFlow**.
- Published a paper at the *International Conference on Pervasive Computing* winning **Best Paper Award**.

Everest — Jan 2018 – Jun 2019

- Built a full-fledged, efficient REST API client in **Java** with a smaller memory footprint than the competition.
- Implemented numerous features such a comprehensive HTTP request composer, syntax highlighting, requests history, response visualizer, mock servers, and more.
- Developed the ability to plan, research, implement and debug a complex project and solve problems independently.
- Garnered more than 800 stars on GitHub and ranked 2nd on GitHub Trending in May 2018.
- Source code used to teach a course at the University of California, San Diego. (`https://bit.ly/2Hr6zIv`)

More Projects

- OAuth 2.0 Bin
- commaQL
- Genetic Algorithm Visualizer
- Ballad Text Editor
- DOM Manipulation Engine
- NoteHero
- B-AMP Website
- AmbiQuick

ACHIEVEMENTS

MTV's Get A Job: Season 5 (Link to episode) — Jun 2019

- Among the top 5 finalists for an internship position with Microsoft on this national television program.
- Selected from over 15,000 applicants across India.