

Gaurav Ghati

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EDUCATION

University of California, Irvine

Sep 2023 – Dec 2024 (Expected)

Master of Computer Science

Irvine, California

Courses: Operating Systems, Data Structures, Databases Management, Machine Learning

Pune Institute of Computer Technology

May 2018 – Jun 2022

Bachelor of Engineering in Information Technology, GPA: 9.21 / 10

Pune, India

TECHNICAL SKILLS

Languages: C++, Java, JavaScript, Python

Tools: Git, Docker, Google Cloud, Mongo Atlas

Frameworks: SpringBoot, NodeJS, Django, ReactJS

Databases: MySQL, MongoDB

EXPERIENCE

Bank of New York Mellon

Jul 2022 – Aug 2023

Software Engineer

Pune, India

- Developed an electronic signature application using Java SpringBoot and AngularJS. This application serves both our company's internal needs and is accessible to our clients for digitally signing documents.
- Improved code coverage of Java projects by 60% using JUnit and Mockito, resolving 100+ Software composition analysis (SCA) vulnerabilities issues.
- Adapted Agile methodologies, CI/CD, and Test-Driven Programming to uphold strong programming practices.

Acumensa Technologies

Jan 2021 – Mar 2021

Software Developer Intern

Bangalore, India

- Built a Supply Chain Management software, using Django REST APIs and ReactJS.
- This project provides multiple features for producers, consumers, suppliers and sellers. And, solves the existing problem of backtracking if any error is found in goods, Implemented the permission and approval frameworks.

Indian Institute of Management Ahmedabad

May 2019 – Jul 2019

Summer Project Intern

Ahmedabad, India

- Worked under the guidance of Prof. Sanket Mohapatra on a project "Development of External Risk Indices", and created an educational finance website, utilizing JavaScript for frontend and Python's backend framework (Flask)

PROJECTS

Dynamic Thread Scheduler | *Operating Systems, Linux* | Github

Oct 2023 - Nov 2023

- Created multi-threaded thread scheduler by implementing thread structure, and allocating thread stack dynamically in low level programming language C.
- Implemented thread scheduling by creating a Circular Linked List to schedule threads in Round Robin fashion.
- Achieved concurrent non-parallel execution by context switching between threads using `setjmp()` and `longjmp()` kernel system calls.

Technology Assisted Review | *NLP, Django REST, ReactJS*. | Github

Aug 2021 – May 2022

- Developed a Technology Assisted Review methodology using BERT and Bi-LSTM for document assessment.
- Reduced manual review and minimized biases by providing intelligent technology assistant for document review.
- Implemented incremental learning by using a ranking algorithm to prioritize uncertain documents, thus increasing review accuracy by $\sim 45\%$.
- Employed pseudo rehearsal during incremental learning to prevent catastrophic forgetting and enhanced model training efficiency.

Credenz Website Backend | *NodeJS and ReactJS* | Github

Oct 2020 - Feb 2021

- Designed backend APIs for Credenz's website (technical fest), It was utilized by more than 1200 users at a time.
- Include features like user registration, booking tickets for technical events, payment gateway, etc.

EXTRA CURRICULAR

- Served as a technical head of PICT IEEE Student Branch (PISB) for more than three years.
- Contributed to a few open source projects like C++ based machine learning library (MLpack) and Mozilla website.
- Written 3 technical on medium.com/@gauravghati on topics like Natural Language Processing(NLP) models.