

# Gaurav Ghati

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## EDUCATION

### University of California, Irvine

Sep 2023 – Dec 2024 (Expected)

Master of Computer Science, **GPA:** 4/4

*Irvine, California*

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

### Pune Institute of Computer Technology

May 2018 – Jun 2022

Bachelor of Engineering in Information Technology (Honors in Data Science), **GPA:** 9.21/10

*Pune, India*

## TECHNICAL SKILLS

**Languages:** C++, Java, JavaScript, Python, Bash

**Tools:** Git, Unix/Linux, AWS EC2 and S3, Docker

**Frameworks:** SpringBoot, Django, Node.js, React.js

**Databases:** MySQL, MongoDB, CouchBase

**Domain:** Full Stack Web Development, Microservices, Machine Learning, NLP, OS Level Programming (C/C++)

**Certifications:** [SAFe 5 Practitioner](#), [Java Programming](#), [NLP in TensorFlow](#), [Sequence Models](#)

## EXPERIENCE

### Bank of New York Mellon

Jul 2022 – Aug 2023

Software Engineer

*Pune, India*

- Worked on backend **REST APIs** for electronic signature app using **Java SpringBoot**, serving 60,000+ users, including company employees and clients to facilitate digital signatures.
- Leveraged **Apache Kafka** to manage continuous data streams, **Amazon S3** for document storage, and **Oracle MySQL** for user data storage.
- Implemented scrum/agile methods to enhance **CI/CD**, boosting Java code coverage by 60% using **JUnit** and **Mockito** and addressing 100+ production bugs.

### Veritas Technologies LLC

Aug 2021 – May 2022

Research Project Intern | [Github](#)

*Pune, India*

- Devised NLP text classification model using **LSTM** and Google's LLM - **BERT** for auto-matching documents. Utilized rehearsal techniques to prevent memory loss while training model.
- Improved incremental learning recall by **45%** by writing a ranking algorithm prioritizing uncertain documents.
- Built web app with **Django** REST APIs in Python and **React.js**, the backend was **dockerized** and deployed to **AWS EC2** for scalable and efficient access.

### Indian Institute of Management Ahmedabad

May 2019 – Jul 2019

Summer Project Intern

*Ahmedabad, India*

- Contributed to an education website using **HTML**, **CSS**, and **Javascript**. Conducted data visualization using Python's **pandas**, **matplotlib**, and **seaborn** libraries on information sourced from public APIs.

## PROJECTS

### Dynamic Thread Scheduler | *Operating Systems, Linux* | [Github](#)

Oct 2023 - Nov 2023

- Implemented thread scheduling in **C**, including thread structure creation and dynamic stack memory allocation.
- Created **Round Robin thread scheduling** using a Circular Linked List and achieved concurrent non-parallel execution by context switching between threads with `setjmp()` and `longjmp()` **kernel** system calls.

### Credenz Website Backend | [Github](#)

Oct 2020 - Feb 2021

- Designed backend APIs using **Node.js** / **Express.js** for Credenz's website (technical fest), utilized by 8 event apps for live updates during the technical fest, serving over 1800 participants.
- Implemented middleware authentication, **OAuth2**, **JWT**, and **MongoDB Cloud** for secure data handling while enabling user registration, event ticket booking, payment gateway etc.

## LEADERSHIP AND CO-CURRICULAR ACTIVITIES

- 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 technical blogs on [medium.com/@gauravghati](https://medium.com/@gauravghati) on topics like Natural Language Processing(NLP) models.