

# 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, Databases Management, Algorithms

### 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, Bash

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

**Frameworks:** SpringBoot, NodeJS, Django, ReactJS

**Databases:** MySQL, MongoDB, CouchBase

**Technologies:** ElasticSearch, Hadoop, Hive, Apache Kafka, Apache Spark, RabbitMQ, Kibana, Tableau, PowerBI

## 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, also resolved more than 100 production bugs and vulnerability issues as a part of Production Maintenance.
- Adapted agile methodologies, CI/CD, and Test-Driven Programming to uphold strong programming practices.

### Veritas Technologies LLC

Aug 2021 – May 2022

Research Project Intern | Github

*Pune, India*

- Engineered a methodology for Technology Assisted Review, leveraging BERT and Bi-LSTM for comprehensive document assessment.
- Reduced manual review and minimized biases by providing intelligent technology assistance for document review.
- Applied incremental learning with a ranking algorithm to prioritize uncertain documents, increasing accuracy by 45%. Used pseudo rehearsal for efficient model training, preventing catastrophic forgetting in NLP.

### Acumensa Technologies Pvt. Ltd.

Jan 2021 – Mar 2021

Software Developer Intern

*Bangalore, India*

- Built a Supply Chain Management software, using Django REST APIs (python) and ReactJS.
- This project provides multiple features for producers, consumers, suppliers, and sellers. And, also 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 a professor 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 | *Kernel Programming, 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 | *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.

## LEADERSHIP AND CO-CURRICULAR ACTIVITIES

- Certified: SFA 5 Practitioner, Natural Language Processing in TensorFlow, Java Programming, Sequence Models
- 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 blogs on medium.com/@gauravghati on topics like Natural Language Processing(NLP) models.