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, Django, Node.js, React.js   **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*
- Worked on the backend of an electronic signature application using **Java SpringBoot**. This application is utilized by over 60,000 individuals, including company employees and clients to facilitate digital document signing.
- Leveraged **Apache Kafka** to manage incoming continuous data streams, consumed by multiple microservices, and utilized Oracle MySQL to user and document data and **Amazon S3** for efficient document storage and retrieval.
- Adapted scrum/agile practices to enhance **CI/CD**, increase code coverage of Java projects by 60% using **JUnit and Mockito**, and resolved over 100 production bugs and vulnerability issues as part of production maintenance.

Veritas Technologies LLC   Aug 2021 – May 2022
Research Project Intern | [Github]   *Pune, India*
- Devised an NLP text classification model based on **LSTM** and Google's LLM - **BERT** for auto-matching relevant documents. Used rehearsal techniques for effective training, preventing memory loss issues while training model.
- Improved incremental learning accuracy by **45%** by writing a ranking algorithm prioritizing uncertain documents.
- Developed this web application using **Django** REST APIs in Python and **React.js**, the backend was **dockerized** and deployed to **AWS EC2** servers ensuring scalable and efficient access to the application.

Indian Institute of Management, Ahmedabad   May 2019 – Jul 2019
Summer Project Intern   *Ahmedabad, India*
- Contributed to a finance 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 | *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 | [Github]   Oct 2020 - Feb 2021
- Designed backend APIs using **Node.js / Express.js** for Credenz's website (technical fest), These APIs were used by 8 other event apps to get live updates of the technical fest. In total, it was used by over 1800 participants.
- Include features like user registration, booking tickets for technical events, payment gateway, etc. Implemented middleware authentication, **OAuth2**, **JWT**, and **MongoDB Cloud** for streamlined and secure data handling.

LEADERSHIP AND CO-CURRICULAR ACTIVITIES

- Certified: [SAFe 5 Practitioner], [Java Programming], [Sequence Models], [Natural Language Processing in TensorFlow]
- 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.