Ajitesh Nair

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EDUCATION

University of Illinois at Urbana-Champaign   May 2025
Masters in Computer Science   GPA: 4.0/4.0
- Courses: Distributed Systems, Database Systems, Artificial Intelligence, Data Mining, Threat Detection etc.
- Grad Teaching Assistant for *Topics in Software Engineering*.

PES University   May 2022
Bachelor of Technology in Computer Science and Engineering   GPA: 8.86/10
- Specialization in Machine Intelligence and Data Science, Minors in Electronics and Communication Engineering
- Courses: Algorithms and Data Structures, Operating Systems, Networks, Cloud Computing, Computer Architecture, Machine Intelligence, NLP, Data Science and Analytics, VLSI, Signals and Systems, Embedded Systems, etc.
- Achievements: Received scholarships 7 times in 8 semesters for being in the top 20% of the university.

WORK EXPERIENCE

Akamai Technologies   Santa Clara, CA
Software Engineering Intern - Summer   May 2024 - Aug 2024
- Optimized memory consumption and enhanced Trino query performance by redesigning system architecture.
- Leveraged knowledge in Python, Trino, Big Data, Partitions, Redis, Linode, etc.

Akamai Technologies   Bangalore, India
Software Engineer   January 2022 - December 2023
- Developed a new version of a product (Kafka -> S3) that reduced memory usage by 50% and increased throughput by 12 times.
- Developed various tools and APIs to create and manage AWS/Linode Instances/Volumes/Disks, handle customer migrations, CRUD operations on Cassandra, automatically create Athena Partitions, manage customer events, etc.
- Created a Golang library to interact with SaltStack to manage clusters remotely enabling Linode to emulate AWS Opsworks.
- Dockerized several projects and migrated them to Kubernetes by creating helm charts and designing Jenkins pipelines to build and deploy images.
- Leveraged knowledge in Go, Python, REST APIs, Kubernetes, Big Data, Jenkins, Salt, Kafka, Consul, etc.

Autodesk   Bangalore, India
Software Development Intern   July 2021 - January 2022
- Worked on the development of a new "Read-Only for Me" feature for the flagship Fusion 360 product.
- Created automations to monitor regressions and fixed them, Upgraded UI elements, and optimized several workflows.
- Leveraged knowledge in C++, Git, OOPS, Data Models, Agile Development, Jira, CAD, Testing, etc.

ACTIVITIES

- **Published a research paper** at the 5th International Conference on Intelligent Sustainable Systems indexed by Springer.
- As part of the **Google Cloud Ready Facilitator Program**, Completed 24 quests and earned 12 skill badges related to cloud infrastructure, cloud-native application development, big data, and machine learning.
- **Virtual Internship @ ANZ**: Worked on Exploratory Data Analysis and Predictive Analytics.
- **Data Analytics Consulting Virtual Internship @ KPMG**: Worked on Data Quality Assessment, Data Insights, and Data Presentation.

PROJECTS

- AI-Based Career Counseling with Chatbots (RASA, Python, REST API, Machine Learning, HTML, CSS, Javascript)
- Yelp Review Analysis (Big data, Hadoop, Hdfs, Hive, Spark, Sqoop, Natural Language Processing, Data Analysis)
- Discord Bot for CTF (Python, High and Low-Level Design, Software Engineering, OOPS, Testing)
- Supermarket Management System (Django, ReactJS, REST API, Postgresql)
- Face Mask Detection (Deep Learning, Convolutional Neural Networks, SVM)
- New York Airbnb data analysis and Price Prediction (Data Analytics, Natural Language Processing, ML) and many more.
- All the projects are available at www.github.com/ajitesh27

SKILLS, PLATFORMS, and TECHNOLOGIES

C, C++, Python, Golang, Kubernetes, Helm, Django, ReactJS, Javascript, HTML, CSS, PHP, MySQL, GCP, AWS, Linode, Salt, Big Data, Hadoop, Apache Hive, Apache Spark, R, Git, Data Analytics, Natural Language Processing, Machine Learning, Deep Learning, and many more.