

AMITESH SINHA

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[Website](#) | [LinkedIn](#)

EDUCATION

Cornell University, New York, NY

May 2024

Master of Science - Information Science | GPA: 3.77/4.0 | Recipient of Merit Scholarship

Coursework – Digital Fabrication, Building Startup Systems, Machine Learning Engineering, Applied Data Science, HCI & Design

Shiv Nadar University, Gautam Buddha Nagar, India

May 2018

Bachelor of Technology - Computer Science and Engineering | GPA: 3.61/4.0 | Recipient of Merit Scholarship

Coursework – Data Structures, Design and Analysis of Algorithms, Object Oriented Programming in Java

TECHNICAL SKILLS

Application Areas:	Full Stack Development, Extended Reality, Computer Vision, Data Science, 3D Modelling
Coding Language:	Python, Java, JavaScript, Swift, C#
Tools/Frameworks:	Fusion 360, Figma, React, Node.js, Django, Flask, Spring Boot

EXPERIENCE

XR Collaboratory, XR Prototyper Intern, New York

June 2023 - July 2023

- Developed a Unity package for video playback in VR experiences. It is a component-based framework that supports multiple video feeds and is being leveraged for in-situ analysis of multi-user VR studies.

Dell Technologies, Software Engineer, Bangalore

July 2018 - July 2022

- Delivered a modern, scalable invoicing system designed & developed from scratch and built on the microservices architecture. Flask, Spring Boot, Elasticsearch, Oracle SQL Server, Redis, RabbitMQ were used to build this system. Generated revenue upwards of 600 million USD.
- Built an inhouse workflow management system using the Django framework. Improved turnaround time from 20+ hours to 15 mins for delivering high value invoices (10,000+ SKUs).
- Redesigned the subscription quote service for a better customer experience. Spring Boot, RabbitMQ, Elasticsearch applications built on Cloud Foundry. Reduced response time from 10 minutes to under 200 milliseconds.
- Developed new offerings like storage as a service, cloud service and multiple third-party integrations (Adobe, Dropbox, McAfee). Increased operation from 1 country to 40+ countries.
- Retired and replaced legacy applications by cloud first APIs built on the microservice architecture. Suite of monitoring and alerting applications facilitated ease of operational exercises. Decreased weekly incident count by 70%.

PROJECTS

AR Copilot (Augmented Reality, Photogrammetry, Reality Kit, Swift, Fusion 360)

Spring 2023

- AR as a copilot in the digital fabrication and assembly process ([GitHub](#)).
- Developed AR 3D Scanning and Visualization Tool using Reality Kit, Object Capture API and Swift.

Robot's Underfoot (Virtual Reality, Body Pose Estimation, Unity, MoveNet, OpenCV)

Spring 2023

- Ongoing research project under [Dr. Wendy Ju](#) to investigate the intricacies of human-robot interactions and analyze key parameters that define the nature of these interactions.
- Research involves developing a system for monitoring an individual's body posture and accurately translating their skeletal movements into a virtual reality (VR) environment.
- Analysis of how robots respond to humans based on factors such as proximity and physical contact.

Bolt – Workflow Management System, (Django, FastAPI, Spring Boot, Spring Data JPA)

Fall 2018

- Delivered over 3 million subscription invoices and generated a revenue upwards of 600 million USD
- Rule-Based Orchestration Engine for authoring and executing business workflows
- Spring Data JPA ORM application for auditing workflow execution and recovery from last failed state

LEADERSHIP/ EXTRACURRICULAR ACTIVITIES /VOLUNTEER/COMMUNITY SERVICE

- Reduced the workflow time from 15 days to 1 day for an NGO by developing a product for converting PDFs to Braille print format. Won Dell's Global Ideaforce Prize.
- Python and Spring Boot mentor in Dell's Pair and Program Initiative.
- Lead of Dell's Onboarding Team. Developed Developer bootcamps for college hires.

CERTIFICATION

- Cloud Developer Nanodegree – Udacity (AWS, Serverless Computing, Kubernetes)