

Academic History

Master of Science in Computer Science, University of Massachusetts Amherst May 2025
Relevant Coursework: Reinforcement Learning, Intelligent Visual Computing, Adv. Natural Language Processing, Secure Distributed Systems GPA: 4.0

Bachelor of Technology in Computer Science and Engineering, VIT University May 2020
Relevant Coursework: Image Processing, Content Based Image and Video Retrieval, Machine Learning, Applied Linear Algebra, Discrete Mathematics and Graph Theory, Web Mining GPA: 3.55

Industry Experience

PayPal Inc.

Software Engineer 2 Apr 2022 - Jul 2023

- Solutioned and implemented a major redesign of PayPal's Billing Agreement Experience which handles **14% of core PayPal TPV across 200 markets globally**
- Proposed and wrote efficient low-level solutions in TypeScript and Java to power **highly distributed, low latency** web services serving **delightful, responsive, and accessible** world-class experiences
- Planned and managed work for a team of 8 engineers as **Scrum Master**, at mean **say-do ratio of 92%**
- Trained several cohorts of SDE 1s in Web Development fundamentals and interviewed 35 candidates for various Engineering roles across the Payments, Data Sciences, Commerce Platforms domains
- Received **Key Talent Award** in the 2023 rewards cycle, and was 3-time winner of a Spot Award

Software Engineer 1

Aug 2020 - Mar 2022

- Conceived and developed a zero-dependency decision engine, reducing **feature development time by 65%** and **total LOC by 80%** on average for onboarded use cases
- Delivered a highly available, distributed cross domain MQ platform powered capable of **processing over 1 billion messages/day** to enable a whole host of new customer facing features across products
- Delivered solutions for various engineering improvements and legacy migration initiatives incorporating several **first-at-PayPal** techniques such as Strangler modules and FlowKeeper
- Organized **monthly brownbag sessions** and annual hackathons for Commerce Services

Intern

Jan 2020 - Jul 2020

- Set up a natural language processing pipeline for **automated root cause bucketing and analysis** on customer support call transcripts to better inform Engineering and Operations about emerging issues
- Developed a **natural language aware search engine** and an in-house web crawler with Luscene and BeautifulSoup in Python to power a site-wide search with **contextual quick actions**

Intern

May 2019 - Jul 2019

- Delivered solutions for various web experience feature initiatives for Resolution Center Experiences
- **Migrated existing functionality** from legacy RESTful services to GraphQL microservices

VIT University

Software Developer

Mar 2017 - May 2020

- Designed and developed core modules for an in-house programming examinations portal (V-PROPEL) for VIT University written on django, which was **scaled to over 10,000 users across 4 campuses**

Research Experience

Design and Development of an Intelligent On-line Teaching-Learning Portal for Enhanced Problem-Solving & Programming Skills [PI: Dr Janaki Meena; supported by a MeitY, Government of India grant of ₹15.9M]

- Investigated feasibility of proposed features for an online programming platform to **enable computer science education** for high schools and universities in underserved regions

Selected Projects

Agent for the "Traffic Jam" Puzzle

[Skills: Reinforcement Learning, Simulation, Modelling]

- Applied Reinforcement Learning with Eligibility Traces and other techniques to train an agent in solving the popular multi entity puzzle game "Traffic Jam" in **under 200 training iterations**

Visual Media Analysis Toolkit

[Skills: Computer Vision, Information Retrieval, Image Classification]

- A python module providing **plug-and-play** routines for every stage of the IR pipeline for visual media

Spooky Author Identification Challenge

[Skills: Natural Language Processing, Text Classification]

- Our submission to solve the **multiclass** Spooky Author Identification challenge on Kaggle with tree based ensemble learning, achieving a multiclass log loss of 0.29 and a **global submission rank of 129**

Skills

Programming Languages: Python, Java, JavaScript, C, C++, R, SCSS, Solidity

Libraries/Frameworks: Jax, PyTorch, Keras, Pandas, einops, ReactJS, GraphQL, ExpressJS, MPI

Tools/Platforms: Hugging Face, Docker, Git, AMQ, Kafka, Kibana, SignalFX, Jira, Figma, Unity