

HRIWK GOKLANEY

(413) 313-9152 | hgoklaney@umass.edu | linkedin.com/in/hritwik | github.com/hritwik21

EDUCATION

University of Massachusetts Amherst

M.S. Computer Science (CGPA: 3.9/4.0)

Massachusetts, USA

Aug 2025 – May 2027

Birla Institute of Technology and Science, Pilani (BITS Pilani)

B.E. Computer Science (CGPA: 8.56/10)

Rajasthan, India

Jul 2018 – May 2022

Relevant Coursework: Advanced Machine Learning, Systems for Data Science, Algorithms for Data Science, Data Structures and Algorithms, Object Oriented Programming, Database Management Systems

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, Typescript, SQL

Backend: REST APIs, Event-Driven Systems, Apache Kafka, GraphQL, Spring Boot

Data/Storage: AWS DynamoDB, MongoDB, Redis (caching)

Cloud/Dev: AWS (Lambda, SQS, SNS, Glue, CloudWatch), CI/CD, Metrics/Monitoring

Software Architecture: Microservices, Event-Driven Systems, System Design, Agile Development

ML/DS: Pandas, NumPy, FastAPI, Load testing (Locust)

WORK EXPERIENCE

Cashfree Payments

Dec 2024 – Jul 2025

Software Development Engineer 2

Bangalore, India

- Reduced verification processing time by 30% by building Kafka-based async workflows and Java APIs, adding state-history tracking, paginated retrieval, and idempotent bulk upsert for merchant document uploads. (*Java, Kafka, MongoDB*)
- Built an event-driven notification service that emitted verification and settlement updates and rendered templated emails, improving merchant visibility and reducing manual follow-ups by 6 tickets/week. (*Mustache, Kafka*)
- Designed extensible partner-as-aggregator settlement workflow to support future partner integrations with minimal refactoring. (*Java, Spring Boot*)

Amazon

Jan 2022 – Oct 2024

Software Development Engineer (formerly Intern)

Bangalore, India

- Saved ~10 SDE-weeks by replacing hard-coded payment method metadata (name/logo) with a scalable configuration layer for the Notification Service, enabling faster payment method launches on Amazon. (*Java, AWS*)
- Reduced \$4.5K/year by analyzing AWS usage patterns and DynamoDB workloads and executing cost optimizations to reduce infrastructure spend. (*AWS DynamoDB, CloudWatch*)
- Increased Alternate Payment Methods (APM) adoption by 60% by delivering an incentivized set-as-default feature end-to-end for Venmo/SEPA payment method and driving UAT sign-off. (*Java, AWS SQS, SNS, Glue*)

ServiceNow

May 2021 – Jul 2021

Software Development Intern

Hyderabad, India

- Implemented UI to display recommended actions inside Engagement Messenger embedded on third-party pages using client-side JavaScript and AngularJS components with ServiceNow scripting APIs. (*AngularJS, ServiceNow scripting*)
- Leveraged Next Best Action in CSM to deliver contextual recommendations that improved service efficiency and personalization. (*ServiceNow CSM*)

PROJECTS

Caching for High Performance ML Inference

Oct 2025 – Dec 2025

- Built a FastAPI inference service using Hugging Face models; benchmarked no-cache vs in-process LRU vs Redis caching with Locust under skewed (Zipf-like) workloads to measure p95/p99 latency and throughput. (*Python, FastAPI, Redis, Locust*)
- Evaluated cache trade-offs (hit-rate, memory, multi-process sharing, network overhead) and documented a scaling recommendation for real-time inference.

LEADERSHIP & ACHIEVEMENTS

- **Amazon Consumer Payments Hackathon 2024:** Top 7 finalist; demoed “Smart Ticket Resolution Tool” proposal to business leaders at Amazon.
- **Hult Prize 2019:** Marketing Head at Hult Prize (global social impact/startup competition).
- **IIT JEE Advanced 2018:** AIR 2232 out of 1.5M candidates.