

# Ajinkya Malhotra

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## EDUCATION

**M.S in Computer Science @ Texas A&M University - College Station**      **GPA: 3.50/4.00**      **Aug. 2022 – Dec. 2023**  
*Coursework:* Advance Algorithm Design, Software Engineering, Advanced Computer Graphics, Business and Computer Ethics

**B.S in Computer Science @ California State University - Sacramento**      **GPA: 3.70/4.00**      **Jan. 2015 – May 2019**  
*Coursework:* Parallel Programming with GPUs, Intelligent Systems, Object-Oriented Graphics, Data Structures and Alg. Analysis

## SKILLS

- **Languages:** Python, Java, C/C++, Bash, JavaScript, SQL, HTML/CSS
  - **Cloud:** AWS (EC2, S3, Lambda, API Gateway, SQS, SNS, RDS, IAM, CloudFormation, VPC, Pinpoint, Connect)
  - **CI/CD & Tools:** Git, GitLab CI/CD, Jenkins, Bitbucket, Terraform, Packer, Jira, Confluence, Splunk
  - **Frameworks/Databases:** Django, Flask, Amazon DynamoDB, Amazon Aurora, MongoDB, SQL, NoSQL, MySQL

## **WORK EXPERIENCE**

ARM Boston, MA

- **Senior Software Engineer (Python, Bash, C++, GitLab CI/CD, AWS)** Apr. 2025 – Present
    - Developing telemetry, orchestration, and driver interaction software for next-gen Arm chips, enabling **performance monitoring, load balancing and ML system integration**.
    - Designing CI/CD pipelines in GitLab that **reduced release cycle times by 30%** and improved build reliability.
  - **Software Engineer (EC2, Python, Groovy, Java, Jenkins, AWS)** Jan. 2024 – Apr. 2025
    - Optimized nightly/release build times by **58%** by redesigning Jenkins Groovy pipelines and optimizing test orchestration.
    - Lowered AWS infrastructure spend by **20%** and delivered multiple performance model releases to global partners.
  - **Software Engineer Intern (EC2, AMIs, EBS, EFS, Python, Boto3, Terraform, Packer)** May 2023 – Aug. 2023
    - Automated AWS resource lifecycle with Python/IaC tools, **eliminating 70% of manual provisioning effort**.

Amazon Web Services (AWS) Seattle, WA

- **Cloud Support Engineer I (Lambda, API Gateway, SNS, SQS)** May 2020 – Jun. 2022
    - Created internal automation/diagnostic tools **used globally across AWS**, reducing average case resolution time by **15%**.
    - Resolved high-severity customer escalations for enterprise clients, improving customer satisfaction.
    - Partnered with product engineering to prioritize fixes and enhancements, directly influencing service improvements.

**Esurance** Rocklin, CA

- **Software Engineer (Java, JUnit, Splunk, CI/CD, MongoDB, REST APIs, OOPS)** Aug. 2019 – May 2020
    - Built cache in a high-traffic API that **reduced query latency by 80%**, serving responses from cache instead of MongoDB.
    - Maintained and enhanced **5 payment-related APIs**, ensuring scalability and compliance under high transaction loads.
    - Integrated Splunk-based logging and monitoring, cutting average incident resolution time by **30%**.

Vision Service Plan (VSP) Rancho Cordova, CA

- **Software Engineer Intern (Java, QA, Scrum)** Jun. 2018 – May 2019
    - Automated QA workflows with Selenium/JUnit, **boosting test coverage by 25%** across 4 customer-facing web portals.

PROJECTS

Steam Game Recommendation Engine Mar. 2023 – May 2023

- Built and deployed a recommendation system using Content-Based Filtering and VBPR on AWS Lambda and Heroku, improving recommendation accuracy by 25% and reducing processing times by 60%.

Chess Master AI Feb. 2023 – Apr. 2023

- Developed AI chess engine using Minimax with Alpha-Beta pruning/IDS/DLS, achieving 80% win rate.

Network Optimization Algorithms Nov. 2022

- Designed and **benchmarked** graph algorithms (Dijkstra, Kruskal) on large-scale networks with up to 5M edges, achieving **2x faster execution** compared to baseline implementations.

Firearm Classification CNN Oct. 2019 – Dec. 2019

- Trained a convolutional neural network (AlexNet) in TensorFlow/TFLearn, achieving **85% classification accuracy**.