

# Achintya Kumar

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## Work Experience

### Palantir Technologies

New York, NY

FORWARD DEPLOYED SOFTWARE ENGINEER

May 2025 - Sept 2025

- Hybrid technical and customer facing role working to improve mechanic & quality engineering efficiency for the Boeing F-15 Fighter program.
- Engineered fullstack Spark and Foundry solutions achieving 3x improvement in mechanic training plan creation. Collaborated with team and Boeing stakeholders to design complex data models spanning aircraft data, bill of materials, and work history, uncovering previously hidden production bottlenecks and quality escape impacts on shop floor downtime. Successfully converted pilot into a **multi-million \$ extension** contract.
- Designed and implemented Python + Scikit data science workflows (regression, random forest, etc), then productionized them in Foundry as API-accessible modeling objectives, enabling scalable integration into downstream applications.
- Built a custom React app in Foundry integrating ontology data with OSDK to deliver real-time manufacturing status visibility for F-15 executive leadership, and developed a Foundry AIP (AI Platform) workflow leveraging LLMs to automate mechanic job classification from job descriptions.

### InstaJam, LLC

Remote

CEO/CFO/Co-FOUNDER

Jan 2020 - May 2025

- Co-founder and CEO of defense industry start-up focused on Electronic Warfare (EW) jamming detection and countermeasures. [Patent Granted](#)
- Raised \$2m in funding:** awarded Department of Defense STTR Seq. Phase 2 [\$1.3m], Phase 2 [\$750k] and STTR Phase 1 grant [\$50k]
- Principal Investigator for all grants. Led a team of ~10 across multiple organizations developing a mobile ATAK app for warfighters to detect and communicate instances of radio jamming; improving efficiency of troubleshooting degraded comms on the field by 90%.
- Successfully pitched the business case at multiple field testing events and garnered extensive support from executives across the Air Force and Pentagon such as Air Combat Command A3J, 805th Test Squadron, and Special Warfare Directorate HQ to sponsor our company.
- Fostered business relationship with PhDs at Duke ECE Dept. & Applied ML Lab to develop jamming classification ML algorithms. Delivered product requirements, built out simulation platform for data generation, and managed delivery + integration of model to meet Air Force requirements.
- Collaborated with defense prime Booz Allen Hamilton and led integration work between the Nexus backend platform and our frontend.
- Managed partnership with Notch Inc (metamaterial antenna beamforming) to develop portable direction finding solution capabilities.
- Led mesh network integrations (Gotenna, Somewear) to enable distributed data collection for jammer localization and EW spectrum heatmapping.

### Palo Alto Networks

Santa Clara, CA

SOFTWARE ENGINEER 2 - FIREWALL AS A SERVICE

Oct 2023 - Jan 2025

- Led Cloud Next-Gen Firewall (CNGFW) integration with Palo Alto Networks SSO; enhancing security, user experience, and customer growth by 15%. Extensive cross-functional collaboration with PM, QA, and UX teams resulted in successfully implementing cross tenant support for 50+ customers and maintaining backwards compatibility with both AWS Cognito and Okta SSO login systems.
- Spearheaded the development of CNGFW AppUsage, leveraging Go for a high-performance microservices infrastructure that enhances traffic visibility for customers. Key feature for **securing a \$2.5m enterprise deal** with Mastercard. Integral in the microservices architecture design which utilized AWS EKS, ECR, Docker, and Kubernetes to outperform current serverless design, establishing the foundation for future microservices projects.
- Optimized subscription process by migrating the AWS Marketplace experience from AWS Moonwalk to AWS Quick Launch; completed within a tight three-week deadline, demonstrating capability in rapid knowledge transfer, high-quality code delivery, and cross-team communication.
- Boosted enterprise customer acquisition by 30% through leading development of the Tiered Billing project. Delivered a competitive pricing model update, optimized AWS billing architecture to improve performance, and created a new billing visualization dashboard for users.
- Developed event integration with Datadog Dashboards, heavily improving service health visibility and accelerating customer issue remediation by 2x.

SOFTWARE ENGINEER - FIREWALL AS A SERVICE

July 2022 - Oct. 2023

- Co-led AWS Private Offers feature, driving customer growth and securing over \$1M in contracts with Gartner & BP through discounted SaaS deals.
- Rapidly developed and deployed a secure mTLS-based API Gateway Infra for CNGFW integration with Panorama for critical product demos.
- Led development of a customer onboarding workflow tracking system, integrating event tracking with GCP BigQuery DataLake to build dashboards that visualize customer acquisition flow and key drop-off points. Served as the foundation for future product insights infra with Datadog dashboards.
- Built modular email notification system using Sendgrid, Lambda, and SQS used to send 500+ production emails per month to customers.

### Amazon Robotics

Remote

SOFTWARE DEVELOPMENT INTERN

Summer 2021

- Designed, developed, and tested a custom MR app for the Microsoft HoloLens 2 and utilized a cloud-native approach to integrate the app with AWS.

## Skills

<b>Languages</b>	Python, Go, Java, TypeScript, SQL, Swift, C, C#
<b>Technologies</b>	Foundry, PySpark, Docker, Kubernetes, Git, Datadog, Opensearch, CI/CD (Jenkins, Gitlab), Pytest, JSON, React, Vue, API Design
<b>Cloud</b>	AWS (EC2, Lambda, DynamoDB, SQS, SNS, Timestream, S3, Cognito, Cloudwatch, Cloudfront, ECR, EKS, Fargate, CDK, CloudTrail)

## Education

### Georgia Institute of Technology

Remote / Part-Time

M.S. IN COMPUTER SCIENCE, SPECIALIZATION IN ARTIFICIAL INTELLIGENCE

Aug. 2024 - Ongoing

### Duke University

Durham, NC

B.S. IN ELECTRICAL/COMPUTER ENGINEERING, B.S IN COMPUTER SCIENCE, MINOR IN FINANCE, GPA: 3.84/4.0, CUM LAUDE

Aug. 2018 - May. 2022