Blake Sanie

Software Engineer

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Education

Georgia Inst. of Technology

M.S. Computer Science, Dec 23

o 4.0/4 GPA

• Machine Learning focus

B.S. Computer Science, Dec 22

• 4.0/4 GPA, Summa Cum Laude

Languages

Python JavaScript Java

SQL HTML & CSS C & C++

Technologies

PyTorch AWS & GCP Docker
Redis MongoDB React.js
Spark Tensorflow Selenium
Jupyter Databricks Firebase

Technical Skills

Git Data Structures
AI & ML Statistical Analysis
UI & UX Algorithm Design
Jira Distributed Systems
Slack Cloud Architecture
Linux Database Design
Jetbrains Network Analysis
Figma CI/CD Pipelines

Business Skills

Conflict Resolution

French Fluency (Verbal & Written)
Farsi Language (Conversational)
Effective Leadership
Critical Thinking
Agile Methodology

Experience

College of Computing, Georgia Tech - Atlanta, GA *Head Graduate Teaching Assistant*, Artificial Intelligence

08/21 - Present

- Managed lectures of 1700+ students by coordinating specialized content among staff, preparing stimulating exercises, moderating student discussions, and integrating weekly feedback
- Eliminated 90% of historical plagiarism by restructuring projects with file watermarks, anomalydetecting submission platforms, and staff-facing interfaces beyond Stanford's MOSS tool

Capital One - New York, NY

06/23 - 08/23

Software Engineering Intern, Commercial Lending Tech

- Informed hundred-million-dollar loan decisions by achieving 80x data sync speedup between decentralized underwriter databases and enterprise data lake with serverless rearchitecture
- Evolved data sync mechanism into debut enterprise platform with dataset registry, native data streams, background sync validation, monitoring, and self-onboarding
- Enforced sponsor assignment compliance by redesigning validation logic integrated across Angular.js microsite, C# API service, and PostgreSQL database
- Awarded first-place hackathon project: generative Al-driven Slack channel summarization

Capital One - Chicago, IL

06/22

Software Engineering Intern, Card Data Engineering & Analytics

- 08/22

- Amplified petabyte-scale sensitive data detection accuracy from 50% to 99% with transformer networks and feature-dense NLP tokenization schemes
- Established continuous training and inference pipeline between AWS EMR, S3, and Fargate to strengthen model coverage, adaptability, and automation

Schonfeld Strategic Advisors - New York, NY Software Engineering Intern, Treasury Technology

06/21

- 08/21

- Oversaw creation of broker simulation microservice enabling end-to-end tests for multibillion-dollar short allocation system with > 150K daily trade volume
- Coordinated across firms to integrate MS, GS, and JPM locates services
- o Delivered React-based admin dashboards with overriding broker controls

Projects

Sanie Quantitative Research - Personal Venture

- Pioneered ML stock growth, risk, momentum, and pattern evaluation methods
- Built highly-interactable insight screener with custom criteria engine
- Developed by-your-side stock investment assistant via Chrome extension
- Based on self-devised autonomous strategy with 34% return, 50% risk of S&P

Distal Radius Object Identification - Emory Dept. of Orthopedics

- Prototyped method to reduce emergency wrist implant extraction complications by inferring implant manufacturer from an x-ray scan, presenting the necessary technique guide.
- Applied K-means clustering, PCA, and RANSAC feature matching to form preprocessing pipeline
- Adapted YoloNetV3 for robust object classification with focal loss for class imbalance
- Presented to top-industry surgeons to align use cases, feature scope, and vision

Certifications

AWS Certified Cloud Practitioner - Amazon Web Services

- Critical knowledge of implementing best-practice cloud initiatives with 50+ AWS services
- Hands-on experience with EC2, S3, SNS, EMR, RDS, Lambda, Fargate, Route 53, DynamoDB

Certified Secure Software Engineer (CSSE) - Capital One

• Defense against Code Injection, XSS, Access Control, and Session Handling vulnerabilities