Blake Sanie

Software Engineer

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blakesanie.com   in/blakesanie

Education

Georgia Inst. of Technology

M.S. Computer Science, Dec 23
- 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

French Fluency (Verbal & Written)

Farsi Language (Conversational)

Effective Leadership

Critical Thinking

Agile Methodology

Conflict Resolution

Experience

College of Computing, Georgia Tech - Atlanta, GA
08/21 - Present

Graduate Teaching Assistant, Artificial Intelligence
- Refined projects, worksheets and exams, improving course content
- Assisted in lectures of 300+ students by clearly answering student questions
- Lead comprehensive review sessions after release of each unit project

Capital One - Chicago, IL
06/22 - 08/22

Software Engineering Intern, Card Data Engineering & Analytics
- 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
06/21 - 08/21

Software Engineering Intern, Treasury Technology
- 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
- Delivered React-based admin dashboards with overriding broker controls

GoGoody Inc. - Newark, CA
06/20 - 08/20

Software Engineering Intern, Ecommerce
- Quartered database response time by restructuring product, SKU tables
- Containerized MySQL and Node.js microservices within AWS EC2 instances

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
- Adapted SaaS business model with Stripe-driven subscription lifecycle

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
- Resolved small dataset limitations with model-embedded image augmentation
- 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, 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

Interests

- Landscape photography, road cycling, blues guitar, investment strategy, French cuisine, baseball, alpine skiing, scuba diving, graphic design, chess