Ryan Nasr

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Bachelor of Science in Computer Science - Information Internetworks/Cybersecurity   *Expected December 2025*
   GPA: 3.61/4.0; **Major GPA**: 3.73/4.0
   Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Systems and Networks, Database Systems, Computer Networking, Computer Organization and Programming, Object-Oriented Programming

Universidad Politécnica de Catalunya   Barcelona, Spain
CS Summer Study Abroad Program   *May 2024 - Jul. 2024*

EXPERIENCE

Amazon   Seattle, WA
Software Development Engineer Intern   *May 2025 – Jul. 2025*
- Assembled a distributed ranking service using Lambda/S3 with the Java SDK to rank assets by caching optimality
- Built an Android pre-caching solution using CloudFront/API Gateway in Kotlin, reducing app TTI by 12%
- Trained a ML model on SageMaker with XGBoost to optimize ranking, further increasing Cache Hit Rate by 7%
- Maintained an SNS topic triggering the Lambda on external asset data updates to prevent version conflicts

Acoer   Atlanta, GA
Fullstack Software Engineering Intern   *Sep. 2022 – Jun. 2024*
- Developed a full-stack dashboard using MongoDB, ExpressJs, React and Node.js for client drug data analysis
- Maintained a MongoDB database using Python and Pandas to manage 100,000+ drug metrics from the NIH
- Created a web scraper analyzing 10,000+ keyword search rankings, helping boost search impressions by 22% MoM
- Produced Unit and Integration tests using Jest, maintaining 95% code coverage across all React components

Frontend Software Engineering Intern   *Jun. 2021 – Aug. 2022*
- Revamped Acoer.com website's SEO optimization, leading to a 30% increase in organic monthly user traffic
- Increased user retention rate on Acoer.com by 12% through in-depth analysis of user behavior on Google Analytics
- Developed a front-end page in TypeScript with React enabling clients to explore test case and case study metrics

SAFE Health Systems   Suwanee, GA
Software Engineering Intern   *Jan. 2022 – May 2022*
- Constructed a monitoring system using React, Websockets and Node.js to monitor vital real time output data
- Built full-stack web app using JavaScript, Express.js, and PostgreSQL to analyze monitored response metrics
- Leveraged REST APIs with optimized endpoints for efficient data handling and real-time response analysis

PROJECTS

AIGINT (AI Ethics Agent) @ ECS | *tinyLlama, Kubernetes, TensorFlow, NumPy*   Mar. 2025 – May 2025
- Designed an low parameter AI Agent with tinyLlama to review ethical compliance of AI assisted workflows
- Architected blockchain-based audit trails for AI decisions using Docker and Kubernetes containerization tools
- Applied SHAP and Equal Opportunity metrics to detect and mitigate cross-demographic bias with TensorFlow

Vertically Integrated Projects @ GT | *Python, PyTorch, TensorFlow, Eynollah*   Jan. 2024 – Apr. 2025
- Implemented citation analysis pipeline to identify and graph citations between Ancient Greek authors over time
- Leveraged Llama 3B to analyze citation networks among classical Greek authors, with a matplotlib visualization
- Enhanced machine learning model outputs through comprehensive reliability testing with PyTorch and TensorFlow

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, JavaScript, TypeScript, C/C++, Objective C, SQL
Frameworks & Tools: React, Express.js, Node.js, Django, Jest, Docker, Git, AWS
AWS Microservices: Lambda, S3, SageMaker, SNS, API Gateway, DynamoDB, ECS, IAM, Step Functions
Databases & Libraries: MongoDB, PostgreSQL, Pandas, NumPy, PyTorch, TensorFlow