

Immanuel Anaborne

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EDUCATION

University of Pennsylvania | QuestBridge National College Match Scholar Philadelphia, PA

B.S. Computer Science | B.A. English Expected Graduation: May 2026

SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL

Frameworks: Node.js, Express.js, React

Cloud & DevOps: AWS EC2, AWS RDS, AWS S3, Docker, Git, CI/CD

Big Data: Apache Kafka, Apache Spark

WORK EXPERIENCE

Wharton School of the University of Pennsylvania May 2025 – Present

Research Assistant Philadelphia, PA

Developed a scalable ETL tool using pandas and openpyxl to automate end-to-end Excel data ingestion, reducing manual processing time by 50% for the Wharton Accounting Department

Designed a modular few-shot prompting system with GPT-3.5 to map global trade codes (CMIE/HS/NIC) for 6,500+ items; reduced misclassification errors to <1%

GoodRun May 2024 – August 2024

Software Engineer New York, NY

Partnered with a team of 3 engineers at a seed-stage startup to deliver a Python-based personalized PageRank engine with NetworkX, achieving a 10% increase in DAU/MAU during a 2-month, 2,000-user A/B test

Developed a full-stack customer feedback form with React and Laravel, implementing RESTful validation and JWT authentication; replaced third-party survey tools and reduced annual company tool spend by 10%

Set up CI/CD pipelines in GitHub Actions with Docker image scanning and automated rollbacks on test failures, decreasing failed deploys by 15%

PROJECTS

AI Fridge Inventory & Recipe Recommendation Web App March 2025

Implemented presigned-URL S3 file uploads and integrated OpenAI Vision API to automate grocery item labeling

Created GPT-4 prompt systems for personalized recipe recommendations based on user inventory

Released MVP for beta testing to 100+ classmates, 40% active daily users for 7+ days, saving a total of 100 hours in the first week

Full Stack Social Network Application with AI Face Recognition April 2024

Led a 4-person Scrum team to deploy a React and Express full-stack application on AWS EC2 with Docker and NGINX for container orchestration

Integrated real-time Twitter/X streaming using Apache Kafka for dynamic live content feeds

Engineered AWS S3 image storage and optimized RDS MySQL schemas (normalization, indexing) to efficiently support a 50K-node social graph

LEADERSHIP & ACTIVITIES

Penn Korean Student Association January 2023 – Present

Executive Board

Oversee \$30K+ annual budget; plan and execute 20+ campus events/year for 1.5K+ members, driving 8% year-over-year growth increase (from 1.4K to 1.6K+ members in 2 years)

Generated \$3K+ annually from multi-million and billion-dollar brand sponsors (e.g. Weee!) via targeted outreach

Wharton Korean Undergraduate Business Society April 2023 – May 2025

Senior Consultant

Directed a 6-person team using data-driven approaches to improve sales forecasting for five retail clients, delivering models that reduced operating expenses by up to 10%