

EDUCATION

Rutgers University, School of Arts and Sciences

B.S. in Computer Science | B.S. in Cognitive Science | Minor in Philosophy | **GPA: 3.67**

New Brunswick, NJ

May 2025

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, TypeScript, C#

Frameworks: PyTorch, TensorFlow, React, Angular, scikit-learn, NumPy, pandas, matplotlib

Tools/Platforms: AWS (EC2), Docker, Git, SQL, Jupyter

PROFESSIONAL EXPERIENCE

Software Engineer Rotational Program | PNC Bank

Dallas, TX 2025-Present

- Led feature development in Angular, Java, and Spring Boot for enterprise dashboards accessed by **1,000+** internal users across multiple business units.
- Extended C# APIs with new endpoints and mappers to integrate Teradata-sourced data from MongoDB into enterprise services.
- Enhanced internal APIs and delivered dashboard upgrades adopted by the enterprise architecture community, improving visibility and reducing troubleshooting time.
- Guided features through PNC's full release pipeline (RND → UAT → QA → Prod), ensuring secure and reliable deployment in enterprise environments.

Machine Learning Intern | PNC Bank

Pittsburgh, PA 2024

- Reduced manual SOX compliance review time by 60% by engineering an automated quality-control service integrating supervised and unsupervised model components into a modular Python backend.
- Optimized high-volume data pipelines (100K+ rows) using vectorization, caching, and modular preprocessing functions.
- Designed reusable preprocessing and ensemble modules (Random Forest, Isolation Forest) with performance logging, boosting throughput by 30% and improving scalability.
- Designed a collaborative analytics dashboard in JupyterHub with shareable templates, streamlining workflows across engineering, risk, and compliance.

PROJECTS

Gym Crowd Tracker – Health Track Winner | HackRU 2022

New Brunswick, NJ

- Developed a real-time gym occupancy tracker with a 3-person team, winning the Health Track and deploying to AWS within 24 hours. (GitHub: github.com/aseef11/HackRU2023)
- Built a Python backend and Streamlit frontend to process crowd-sourced data and provide dynamic occupancy updates.

Apartment Copilot | Personal Project

- Developed a full-stack apartment discovery platform to simplify apartment hunting, scraping and ranking 200+ listings with AI-driven scoring to enable real-time comparisons.
- Implemented a FastAPI backend and React frontend with SQLite persistence to support real-time dashboards.
- Utilized asynchronous workflows with error handling, deduplication, and polling to deliver low-latency, continuously updated listings.

LEADERSHIP & PASSIONS

Writing & Filmmaking: Author of essays and poetry; currently working on my first novel and developing a personal documentary film.

RUMAD App Development Club: Prototyped an iOS app in Swift, focusing on UI/UX and navigation flow.

CS Tutor: Mentored students in debugging and problem-solving, improving exam scores by **~15%**.