# Alexander Angione

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## EDUCATION

**Northeastern University** John Martinson Honors Program — Boston, MA
Bachelor of Science in Computer Science, Concentration in Artificial Intelligence — GPA: 3.61/4.00
COURSEWORK:   Software Engineering, Object Oriented Design, Algorithms, Computer Systems, ML I/II, AI

## TECHNICAL SKILLS

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|---|---|
| **Programming Languages:** | Go, Python, Swift, Java, C++, Typescript |
| **Frameworks/Libraries:** | Go Fiber, SwiftUI, Flask, Streamlit, React |
| **Databases & Tools:** | Firebase, PostgreSQL, MySQL, Docker, Git, Subversion |
| **Cloud:** | AWS*(Cognito, RDS, API Gateway, EC2, S3)*, Google Cloud*(Cloud Run)* |

## WORK EXPERIENCE

**Founding Engineer,** GitMarks, *Boston, MA*  GitHub — September 2024 - April 2025
- Launched a full-stack (*React, Typescript, Go*) GitHub based grading platform, enforcing best practices for students
- Developed a robust data architecture with PostgreSQL via RDS supporting transactional and analytic needs
- Implemented ∼17 Go Fiber route handlers to support robust classroom, assignment, and rubric features
- Built ∼6 reusable React components and pages, including rubric editors, assignment dashboards, and analytics views

**Software Consultant Co-op,** State Street, *Boston, MA* — August 2024 - September 2024
- Designed and wireframed a SaaS notification management system, streamlining communication between 7000+ users
- Facilitated requirements gathering with a variety of project stakeholders via targeted client interviews

**Embedded Software Engineering Co-op,** BAE Systems Inc., *Cedar Rapids, IA* — July 2023 - December 2023
- Developed embedded, multithreaded C++ software for use in a Linux-based GPS receiver
- Implemented processing queue for managing serial port messages, supporting variable sized messages
- Streamlined software build tasks across multiples OSes, automating Makefile and Android Debug Bridge interactions
- Active U.S. Secret security clearance

**Software Engineering Intern,** BondXN, *Fairfield, NJ* — May 2022 - July 2022
- Led a 5-person intern QA team testing an MBS/ABS marketplace serving buy-side, sell-side, and BWIC originators
- Pioneered creation of GUI based Python QA software, formalizing and speeding up QA process

**Teaching Assistant,** CS 2500, 3200, 3500 — Spring/Summer 2023, Spring 2024, Summer 2025
- Demonstrated teaching proficiency over fundamental Java, OOD, and database concepts
- Ran labs of 40 students and held high-volume office hours with queues up to 90 students
- Graded 50+ distinct assignments and exams across courses with enrollments ranging from 62 to 654 students

## PROJECTS

**Proxima,** *Swift/SwiftUI, TypeScript, Firebase, Google Cloud Run*  App Store — January 2024 - Present
- Designed and shipped Proxima, a location-centric, authentic connection platform on iOS
- Implemented a daily photo mechanism, uploading photos on background threads to Firebase image storage
- Developed process for fetching profiles based on that user's geohash encoded location, prioritizing proximity to user
- Created a vertical content feed with nested horizontal scrolling, designed to fetch new user profiles on demand
- Integrated a Cloud Run function to securely expose Firebase data via REST API calls before user authentication

**Convolutional Neural Network Facial Detection Model,** *R, Keras* — March 2025
- Constructed a lightweight CNN that classifies faces based on their orientation, achieving 91.3 % validation accuracy
- Curated and augmented a custom facial-orientation dataset with roughly 4000 images
- Bench-marked multiple optimizers, ultimately selecting Adam, improving convergence speed by ∼12 % versus SGD

**Huskerly,** *Python, React TS, AWS Cognito, API Gateway, RDS, EC2*  GitHub — July 2024 - August 2024
- Created a microservice-based messaging web app featuring organization management, group chats, and direct messages
- Implemented secure user authentication and role-based access control with Amazon Cognito (OAuth 2.0)
- Deployed the React front-end on AWS Amplify and the FastAPI WebSocket backend behind API Gateway