

# Robert Palazzi

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## EDUCATION

**Northeastern University**, Boston, MA

**Sep 2023 - Present**

Khoury College of Computer Sciences

Candidate for a Bachelor of Science in Computer Science and Mathematics

*Expected 2027*

**Honors:** Dean's List | GPA: 3.89/4.0

**Relevant Coursework:** Fundamentals of Computer Science I & II (accelerated) | Object-Oriented Design Algorithms (Graduate) | Foundations of Data Science | Linear Algebra

**Activities:** Delta Kappa Epsilon Fraternity (VP of Health & Safety) | Elite Heat Racing Club

## TECHNICAL KNOWLEDGE

**Languages:** Java, JavaScript/TypeScript, Python, Go, HTML/CSS, SQL

**Frameworks/Libraries:** React, Node.js, Next.js, Operator SDK (Go), AngularJS, Express.js, Socket.IO, Tailwind CSS, Flask, Streamlit, Pandas, Numpy, BeautifulSoup, Matplotlib

**Technologies:** Kubernetes, Argo CD, Terraform, Docker, Azure (AKS, Logic Apps), AWS (EKS, RDS, ECS), GCP (GKE), GitHub, GitHub Actions, MongoDB, MySQL, PostgreSQL, Command Line

## RELATED EXPERIENCE

**Wolters Kluwer - DevOps Software Engineer Co-op** | Remote

**Jan 2025 - Aug 2025**

- Designed and implemented the creation of cloud infrastructure across **Azure** and **GCP** using **Terraform** while maintaining and building **CI/CD** pipelines across 15+ different environments
- Managed **Kubernetes** cluster services like **ExternalDNS**, **cert-manager**, **External Secrets Operator**, and **Linkerd** alongside application deployments using **Helm** charts and **Argo CD** to eliminate manual configuration
- Expanded custom Kubernetes controller written in **Go** in conjunction with the **Operator SDK** to automate secret retrieval, namespace annotation, and Argo CD configuration
- Collaborated across 10+ development/DevOps teams to assist app releases, plan projects, and remediate incidents

**Northeastern University, Khoury College - Student Innovation Developer** | Boston, MA

**Jun 2024 - Dec 2024**

- Implemented **CI/CD** pipelines using **GitHub Actions** for staging and production workflows
- Developed new and updated existing features in platform, including a customized content creation portal, role-based access control, and group management using **Next.js**, **Tailwind CSS**, and **Strapi CMS**
- Containerized system services with **Docker**, migrated application to **AWS EKS** for efficient testing and scaling
- Generated thorough system architecture and onboarding documentation, reducing ramp-up time for new team members

**Northeastern Electric Racing - Argos Software Developer** | Boston, MA

**Jan 2024 - Dec 2024**

- Collaborated on development of a full-stack web application using **Node.js** and **Express.js** with **TypeScript** that displays live telemetry data received via a controller area network
- Designed and implemented custom **AngularJS** components that display data fed through **Socket.IO** websockets
- Created asynchronous pipeline of mock telemetry data, allowing efficient testing of new components

## PROJECTS

**Pulse** 🔄

**Nov 2024 - Dec 2024**

- Designed and instrumented full-stack social media application for Northeastern students that deletes posts once they reach net-negative user downvotes using **TypeScript** with **React.js**, **Nest.js**, and **PostgreSQL**
- Created full user registration and login flow with email verification using **Nodemailer**
- Built for Tech and Human Values final project (Read the write-up [here](#))

**Context** 🔄

**May 2024 - Sep 2024**

- Architected **containerized** full-stack web application that matches US-based users with EU countries and available relocation companies, built with **MySQL**, **Python (Flask)**, and **Streamlit**
- Iterated upon a cosine-similarity-based **recommendation algorithm** to match users with countries based on their relevance values for eight variables

**Content-Aware Image Compression**

**Mar 2024 - Apr 2024**

- Collaborated on a **Java**-based image compression tool that reduces the resolution of pictures while preserving the main content by removing the least significant seam of pixels each iteration
- Engineered functionality for shrinking the resolution vertically and horizontally, undoing previous changes, and displaying the specific seam set to be removed each time

## INTERESTS

Spartan Races (Killington 21k, New Jersey 10k, Fenway Park 5k), Weightlifting, Crossword Games, Homelabbing