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 - Present**

- Designing and implementing the creation of cloud infrastructure across 15+ different environments using **Terraform**
- Collaborating across 10+ development/DevOps teams to align projects, releases, and patches
- Managing applications, services, and automations on **Kubernetes** clusters using custom **Helm** charts and **Argo CD**
- Building and maintaining **CI/CD** pipelines and batch job orchestration across **Azure** and **GCP**
- Refactored custom Kubernetes controller written in **Go** to align with the Kubernetes API standard of conditions

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
- Trained and tuned a time series linear regression model to predict crime rates based on country and year, and integrated real-time inference plus data visualizations into the API layer

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