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 May 2027*

Honors: Dean's List | GPA: 3.91/4.0
Relevant Coursework: Foundations of Software Engineering | Algorithms (Graduate) | Object-Oriented Design
Foundations of Artificial Intelligence | Linear Algebra | Agentic AI
Activities: Delta Kappa Epsilon Fraternity | Elite Heat Racing Club

SKILLS

Languages: Java, Python, JavaScript/TypeScript, Go, HTML/CSS, SQL
Frameworks/Libraries: React, Next.js, Node.js, Express.js AngularJS, Flask, Socket.IO, Tailwind CSS, Streamlit
DevOps/Infrastructure: Kubernetes, Argo CD, Terraform, Docker, AWS (EKS, Bedrock, RDS, S3), Azure (AKS, Blob Storage), GCP (GKE), Linux, Bash, GitHub Actions, PostgreSQL, MySQL, MongoDB

RELATED EXPERIENCE

Wolters Kluwer - *DevOps Software Engineer Co-op* | Remote **Jan 2025 - Aug 2025**

- Designed and implemented cloud infrastructure across **Azure** and **GCP** using **Terraform** while building and maintaining **CI/CD** pipelines across **15+** different environments to support **99.99+%** uptime
- Managed **Kubernetes** cluster services including **Argo CD** and **Linkerd** alongside application deployments; Used **Helm** charts and **Bash**/**Python** scripts to automate manual configuration steps
- Expanded custom Kubernetes controller written in **Go** in conjunction with the **Operator SDK** to automate secret retrieval, namespace annotation, and Argo CD configuration, cutting cluster configuration time by **40%**
- Collaborated across **10+** development/DevOps teams to assist app releases, plan projects, and remediate incidents

Northeastern University, Khoury College - *Full Stack Developer* | Boston, MA **Jun 2024 - Dec 2024**

- Led development of module-based learning platform with **500+ MAU** used by Northeastern University students and faculty, built with **Next.js**, **Tailwind CSS**, **PostgreSQL**, and **Strapi CMS**
- Architected **Kubernetes**-based production environment for reliability and autoscaling using **AWS (EKS, RDS, S3)**
- Implemented **CI/CD** pipelines for staging and development workflows utilizing **GitHub Actions**
- Engineered a responsive content-creation portal serving **50+** staff contributors, cutting content delivery timeline by **60%**

PROJECTS

DubOps - 1st Place AWS Track Winner at DubHacks (University of Washington) **October 2025 - Present**

- Developed AI-powered DevOps automation platform using **AWS Bedrock** (Claude 3 Sonnet) to analyze GitHub repositories and automatically generate AWS Infrastructure as Code configurations with **Terraform** and **Docker**
- Built full-stack application with **Next.js/TypeScript** frontend and **Python Flask** backend, implementing GitHub OAuth and automated pull request creation for seamless developer workflow integration

Pulse **Nov 2024 - Dec 2024**

- Designed and built full-stack social media application using **TypeScript** with **React**, **Nest.js**, and **PostgreSQL** for Northeastern students that deletes posts once they reach net-negative user downvotes
- Created full user registration and login flow supported by **JSON Web Tokens**, with email verification using **Nodemailer**
- Built for Tech and Human Values (philosophy) 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 **Python (Flask)**, **Streamlit,** and **MySQL**
- 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 (uses the seam carving algorithm)
- 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