

Argel Hernandez Amaya

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EDUCATION

Western New England University

Bachelor of Science in Computer Science

Relevant Courses: Software Engineering, Design and Analysis of Algorithms, Database Management Systems, and Foundations of Web Systems

Aug 2023 – Dec 2025

Cumulative GPA: 3.76

UMass Amherst

Bachelor of Arts in Education

Relevant Courses: Data Structures and Algorithms

Aug 2020 – May 2023

Cumulative GPA: 3.52

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS

Frameworks/Libraries: Spring Boot, JUnit, Mockito, JavaFX, Apache POI, React, Next.js, Vitest, Jest, Mocha, Tailwind

Tools/Platforms: Git, VS Code, IntelliJ, Node.js, PostgreSQL, PostGIS, Docker, Vercel Netlify, Azure, AWS S3

PROJECTS

Tailor.AI | *Spring Boot, React, Tailwind CSS, PostgreSQL, Heroku, AWS S3* | [Project Link](#)

- Developed an AI-powered solution that customizes resumes based on specific job postings using **Gemini 2.0 Flash** via **Spring AI**
- Implements JWT authentication and email verification with **JavaMailSender** for secure user authentication
- Designed efficient document storage architecture using **Amazon S3 via AWS SDK**, enabling persistent access to resumes across user sessions

Bear Necessities Market | *GitLab, Node.js, VueJS, Vitest, Mocha, Docker, Scrum, Agile* | [Project Link](#)

- Contributing to an **open-source** integrated software solution supporting food security for students at Western New England University
- Led comprehensive testing initiative that established automated testing infrastructure for both frontend and backend components of the InventorySystem Service, achieving over **60%** test coverage in just two sprint cycles
- Implemented **Vitest** for frontend component testing and **Mocha** for backend API testing, creating a sustainable quality assurance framework for ongoing development

INeedHousing | *Spring Boot, Vaadin, Next.js, Tailwind CSS, PostgreSQL, Azure* | [Project Link](#)

- Addressing housing shortages for interns and new graduates by developing a full-stack application that aggregates **hundreds** of listings from multiple sources
- Successfully delivered complete MVP with frontend deployed on **Vercel** using **Next.js** and containerized backend hosted on **Azure App Service**
- Developed multiple **ETL pipelines** using **Spring REST client** to extract, transform, and standardize housing data from multiple sources
- Implemented user registration, personalized search preferences, and responsive listing interface with **Tailwind CSS**

EXPERIENCE

Software Engineer II

Walmart

Internship

June 2025 - August 2025

- Member of the **Cloud Powered Checkout (CPC)** team

Business Intelligence Analyst

Blue Tactical

Part-Time

August 2024 - February 2025

- Leveraged scraping tools such as **Octoparse** and **ParseHub** to expedite the collection of product data, fulfilling employer requirements and improving data collection efficiency by over **50%**
- Independently developed **Customer Order Parser**, a Java desktop app with a **JavaFX UI**, leveraging **Apache POI** and custom designed **data pipelines** to clean and normalize product scraped data from multiple sources with varying formats