

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: 3.66

UMass Amherst

Bachelor of Arts in Education

Relevant Courses: Data Structures and Algorithms

Aug 2020 – May 2023

Cumulative GPA: 3.52

EXPERIENCE

Software Engineer II

Walmart Global Tech

Internship

Jun 2025 - Now

- Member of the Sam's Club Technology **Cloud Powered Checkout (CPC) team**
- Conducted comprehensive API linting audits of Core Member Checkout **microservices**, documenting nearly **500** linting violations and identifying compliance gaps
- Proposed and implemented actionable solutions to standardize **REST API** practices across the platform reducing violations by **75%**

Business Intelligence Analyst

Blue Tactical

Part-Time

Aug 2024 - Feb 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

TECHNICAL SKILLS

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

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

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

PROJECTS

INeedHousing | *Spring Boot, Quarkus, 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 Zillow, Airbnb, and RentCast
- 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 third-party APIs

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

- Contributed 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

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

- 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