Argel Hernandez Amaya

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EDUCATION

Western New England University Aug 2023 – Dec 2025
Bachelor of Science in Computer Science *Cumulative GPA: 3.66*
Relevant Courses: Software Engineering, Design and Analysis of Algorithms,
Database Management Systems, and Foundations of Web Systems

University of Massachusetts Amherst Aug 2020 – May 2023
Major: Education *Cumulative GPA: 3.52*
Relevant Courses: Data Structures and Algorithms

EXPERIENCE

Software Engineer II Internship
Walmart Global Tech *Jun 2025 - Aug 2025*
- Member of the Sam's Club Technology **Cloud Powered Checkout (CPC) team**
- Conducted comprehensive API linting audits of the 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 Part-Time
Blue Tactical *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 5, Mockito, Vitest, Jest, Mocha, Tailwind, Apache POI
Tools/Platforms: Git, GitHub Actions, GitLab CI/CD, VS Code, IntelliJ, Node.js, Docker, MySQL, PostgreSQL, PostGIS, Azure, AWS S3, GCP, Vercel, Netlify, REST APIs, Webhooks, Agile, Scrum, Jira

PROJECTS

INeedHousing | *Spring Boot, Quarkus, Next.js, Tailwind CSS, PostgreSQL, Docker, Azure, GCP* | **Project Link**
- Aiding interns and new graduates find housing near their new workplaces by developing a multi-cloud full-stack platform, aggregating **10,000+** listings from Zillow, Airbnb, RentCast, and more
- Built and deployed **5** containerized, **event-driven microservices** (**Spring Boot, Quarkus**) on **Azure** and **GCP**, with a **Next.js** web application hosted on **Vercel**
- Utilizes automated **ETL pipelines** to extract, standardize, and maintain real estate data from third-party APIs, ensuring data quality and reliability

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 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