

ALAN CASTILLO

(978) 399 4296 | aacastillo@umass.edu | github.com/aacastillo | linkedin.com/in/aacastillo

EDUCATION	B.S. Computer Science – University of Massachusetts, Amherst	Sept 2019 – May 2022
TECHNICAL SKILLS	<ul style="list-style-type: none">➤ Certifications: AWS Cloud Practitioner 2021➤ Languages: CSS, C++/C, HTML, Java, JavaScript, Go, Python, Ruby on Rails➤ Other Tech Skills: Bash, Bootstrap, Cucumber, Docker, Express.js, Git, Gradle, GraphQL, Helm, Jaeger, Jira, Kubernetes, Linux/Unix, Mockito, MongoDB, MySQL, PostgreSQL, Postman, REST API, Spring Framework	
SOFTWARE ENGINEERING EXPERIENCE	Software Engineer Intern – Intuit <i>Cucumber, Docker, Gradle, GraphQL, Java, Mockito, MySQL, Postman, Spring</i>	May 2022 – Aug 2022
	<ul style="list-style-type: none">➤ Designed REST Batch Endpoints for distributed system based on client use case and analysis of current service capabilities. Endpoint was for creating and updating multiple resources in one network request. Designed with Intuit's DAO layer, Service layer, and Presentation layers in mind.➤ Implemented REST Batch Endpoints with full unit test coverage in Mockito and complete documentation on local setup, edge cases, and design.➤ Generated impact by creating endpoints that would make client use easier and minimize the potential for overwhelming the backend with network requests.➤ Coauthored integration tests on other GraphQL endpoints, using Cucumber, to help provide coverage on features nearing the team's quarter deadline.	
	Software Engineer Intern – CyberArk <i>Bash, Docker, Go, Helm, Jaeger, Kubernetes, Ruby on Rails</i>	Nov 2021 – May 2022
	<ul style="list-style-type: none">➤ Established feature flag for tracing on Ruby on Rails MVC architecture using the OpenTelemetry SDK. Connected traces to Jaeger by configuring the Dockerfile and using helm charts. Propagated tracing from Golang application to Ruby on Rails application by injecting context into the HTTP request header. Debugged tracing using Kubernetes pod and Docker container logs and manifest.➤ Implemented custom file permission feature by using Golang and the Kubernetes's annotation downward API.	
TECHNICAL PROJECTS (Links to GitHub)	MongoDB Dynamic Website <i>Bootstrap, CSS, Express.js, Heroku, HTML, JavaScript, MongoDB, REST API</i>	
	<ul style="list-style-type: none">➤ Worked in a team of 3 to deploy a website supported by a handmade REST API.➤ Designed the entire frontend view of the web application and 35% of the backend API.➤ Created 90% of dynamic and static frontend widgets/components that consumed endpoints from the backend. Created roughly 40% of backend endpoints, using Express.js, that handled CRUD operations to the MongoDB database.	
RELEVANT COURSEWORK	Data Management (MySQL), Web Programming (JavaScript, CSS, HTML), Computer Networks (Python), Operating Systems (C/C++)	