


Joseph Azevedo

jazevedo620@gmail.com • US Citizen • (423) 284-1197 •  jazeved0 • Portfolio: jazevedo.me

EDUCATION

JAN 2022 - CURRENT	Georgia Institute of Technology , Atlanta, GA Master of Science, Computer Science Concentration: Computer systems	GPA: 4.0/4.0 Graduation date: Dec 2022
JUN 2018 - DEC 2021	Georgia Institute of Technology , Atlanta, GA Bachelor of Science, Computer Science Concentration: Networking & Graphics	GPA: 4.0/4.0

SKILLS

LANGUAGES:	Go, Rust, Python, C, C++, Bash, Java, C#, TypeScript, JavaScript, HTML/CSS, SQL
SOFTWARE:	Git, Docker, Kubernetes, Nginx, gRPC, Linux, Windows, SQL (Postgres, MySQL) NoSQL (MongoDB, Elasticsearch)
FRAMEWORKS:	React, Flask, Express, Vue.js, jQuery
CONCEPTS:	Containerization, Orchestration, Agile/SCRUM, Microservices, Unit & integration testing, CI/CD, Benchmarking
COURSEWORK:	Data structures, Algorithms, Databases, Networking, Standard/Advanced operating systems, Cloud computing



WORK EXPERIENCE

AUG 2021 - DEC 2021	Software Engineering Intern <i>Datadog</i> <ul style="list-style-type: none">Designed a novel touchless monitoring daemon using eBPF to inspect HTTPS traffic created by Go services <i>before encryption</i>Utilized Linux eBPF, Linux binary formats (ELF, DWARF), & Go compiler/runtime internals to create proof-of-conceptDeveloped code generation tooling to extract Go version-specific metadata from compiler artifacts, facilitating a wide range of supported Go versions
MAY 2021 - AUG 2021	Software Engineering Intern <i>Stripe</i> <ul style="list-style-type: none">Worked with another intern to develop a Ruby client library (incl. automated tests) for an internal config distribution platformDeveloped a last-mile caching sidecar in Go (incl. automated tests) to bypass limitations of Ruby multi-threading & serve a local HTTP APICreated separate Kubernetes and Puppet deployment configurations to facilitate integration with existing services
MAY 2020 - AUG 2020	Software Engineering Intern <i>MathWorks</i> <ul style="list-style-type: none">Developed new features in a Golang microservice and a React dashboard, including unit and integration testingDesigned a custom Kubernetes controller to work with internal framework and manage dynamic deploymentsWrote design documentation and created proof of concept in Go investigating Kubernetes integration
AUG 2019 - DEC 2020	Senior Teaching Assistant <i>Georgia Institute of Technology CS 2340 - Objects & Design (Object-oriented design)</i> <ul style="list-style-type: none">Led a team of 6 other teaching assistants to prepare and deliver lectures over the course of the semesterGraded project milestones and held office hours for students making a group project in Java Swing or Python FlaskCreated code style autograder scripts/workflow using Python for student projects used by 1,300+ students over 3 semesters

LEADERSHIP

JULY 2019 - AUG 2020	President <i>Georgia Tech Esports Club</i> <ul style="list-style-type: none">Led one of the largest student organizations at Georgia Tech with over 300 active members and 30 competitive teamsPlanned and led a team of 20 organizers to host a regional collegiate LAN tournament (Gamefest) with over 400 participants
-------------------------	---

PROJECTS

FEB 2020 - CURRENT	rAdvisor <i>Open-source system resource utilization tool for Docker & Kubernetes</i> •  elba-docker/radvisor <ul style="list-style-type: none">Developed a high-performance, concurrent CLI tool in Rust that monitors Linux cgroups and polls the Docker daemonConducted hundreds of distributed experimental workflows using Python/Bash to test overhead and consistencyWrote final report that details the software design, experimental procedure, and results •  elba-docker/reportIntegrated with performance monitoring toolkit as part of ongoing work as a Research Assistant at GT since Fall 2020
-----------------------	---