


Joseph Azevedo

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EDUCATION

JAN 2022 - DEC 2022	Georgia Institute of Technology , Atlanta, GA Master of Science, Computer Science Concentration: Computing Systems	GPA: 4.0/4.0
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, Java, TypeScript, HTML/CSS, C/C++
SOFTWARE:	Git, Docker, Kubernetes, gRPC, Linux, Windows, SQL (Postgres, MySQL), NoSQL (MongoDB, Elasticsearch)
CONCEPTS:	Containerization, Microservices/RPC, Unit & integration testing, CI/CD, Benchmarking
COURSEWORK:	Data structures, Algorithms, Databases, Networks, Operating systems I/II, Cloud computing, Distributed systems



WORK EXPERIENCE

AUG 2021 - DEC 2021	Software Engineering Intern <i>Datadog</i> <ul style="list-style-type: none">Designed a novel monitoring daemon using eBPF to collect HTTPS traffic from Go programs <i>in-memory & before encryption</i>Utilized Linux eBPF & C, Linux binary formats (ELF, DWARF), & Go compiler/runtime internals to create proof-of-conceptDeveloped code generation tooling to automatically extract Go version-specific metadata from compiler artifacts, facilitating a wide range of supported Go compiler 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 both Kubernetes and Puppet deployment configurations to facilitate integration with existing service deployments
MAY 2020 - AUG 2020	Software Engineering Intern <i>MathWorks</i> <ul style="list-style-type: none">Added new features to a Go microservice and its React/JavaScript web dashboard, including unit and integration testingDeveloped a custom Kubernetes controller in Go to work with internal orchestration service to manage dynamic deployments
AUG 2019 - DEC 2020	Teaching Assistant <i>Georgia Institute of Technology — CS 2340 - Objects & Design (Software engineering principles class)</i> <ul style="list-style-type: none">Led a team of 6 other teaching assistants to prepare and deliver 15 supplemental lectures over the course of a 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 20 competitive teamsPlanned and led a team of 20 organizers to host a regional collegiate LAN tournament (Gamefest) with over 400 participants
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PROJECTS

FEB 2020 - DEC 2021	rAdvisor <i>Open-source system resource utilization monitor for Docker & Kubernetes</i> •  elba-docker/radvisor <ul style="list-style-type: none">Developed a low-overhead monitoring daemon in Rust that monitors Linux cgroups and polls Docker or KubernetesConducted hundreds of distributed cloud experiments using Python/Bash to test the tool's overhead and consistencyWrote final report that details the software design, experimental procedure, and results •  elba-docker/reportIntegrated with performance monitoring toolkit during the course of work as a Research Assistant at Georgia Tech
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