


# Joseph Azevedo

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## EDUCATION

JAN 2022 - DEC 2022	<b>Georgia Institute of Technology</b> , Atlanta, GA Master of Science, Computer Science Concentration: Computing Systems	GPA: 4.0/4.0
JUN 2018 - DEC 2021	<b>Georgia Institute of Technology</b> , 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	<b>Software Engineering Intern</b> <i>Datadog</i> <ul style="list-style-type: none"><li>Designed a novel monitoring daemon using <b>eBPF</b> to collect <b>HTTPS</b> traffic from <b>Go</b> programs <i>in-memory &amp; before encryption</i></li><li>Utilized <b>Linux eBPF &amp; C</b>, Linux binary formats (<b>ELF</b>, <b>DWARF</b>), &amp; <b>Go</b> compiler/runtime internals to create proof-of-concept</li><li>Developed code generation tooling to automatically extract <b>Go</b> version-specific metadata from compiler artifacts, facilitating a wide range of supported <b>Go</b> compiler versions</li></ul>
MAY 2021 - AUG 2021	<b>Software Engineering Intern</b> <i>Stripe</i> <ul style="list-style-type: none"><li>Worked with another intern to develop a <b>Ruby</b> client library (incl. automated tests) for an internal config distribution platform</li><li>Developed a last-mile caching sidecar in <b>Go</b> (incl. automated tests) to bypass limitations of <b>Ruby</b> multi-threading &amp; serve a local <b>HTTP API</b></li><li>Created both <b>Kubernetes</b> and <b>Puppet</b> deployment configurations to facilitate integration with existing service deployments</li></ul>
MAY 2020 - AUG 2020	<b>Software Engineering Intern</b> <i>MathWorks</i> <ul style="list-style-type: none"><li>Added new features to a <b>Go</b> microservice and its <b>React/JavaScript</b> web dashboard, including unit and integration testing</li><li>Developed a custom <b>Kubernetes</b> controller in <b>Go</b> to work with internal orchestration service to manage dynamic deployments</li></ul>
AUG 2019 - DEC 2020	<b>Teaching Assistant</b> <i>Georgia Institute of Technology   CS 2340 - Objects &amp; Design (Object-oriented design)</i> <ul style="list-style-type: none"><li>Led a team of 6 other teaching assistants to prepare and deliver 15 supplemental lectures over the course of a semester</li><li>Graded project milestones and held office hours for students making a group project in <b>Java Swing</b> or <b>Python Flask</b></li><li>Created code style autograder scripts/workflow using <b>Python</b> for student projects used by 1,300+ students over 3 semesters</li></ul>

## LEADERSHIP

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

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