

# Joseph Azevedo

joseph.az@gatech.edu • US Citizen • (423) 284-1197 • [jazevedo620](#) • Portfolio: [jazevedo.me](#)

## EDUCATION

JUN 2018 - CURRENT	<b>Georgia Institute of Technology</b> , Atlanta, GA Bachelor of Science, Computer Science Concentration: Networking & Graphics	GPA: 4.0/4.0 Graduation date: May 2022
-----------------------	---	---

## SKILLS

LANGUAGES:	Go, Rust, Python, Java, Scala, Kotlin, C, TypeScript, JavaScript, HTML/CSS, Bash, SQL, C#
SOFTWARE:	Git, Docker, Kubernetes, OpenShift, Azure, L <sup>A</sup> T <sub>E</sub> X, Nginx, Apache, Maven, Webpack, Babel, gRPC/Protobuf, Linux, Windows, SQL (Postgres, MySQL) NoSQL (MongoDB, Elasticsearch), ANTLR, Selenium
FRAMEWORKS:	React, Flask, Express, Play, Akka, Vue.js, jQuery, Android SDK, React Native, .NET, WPF
CONCEPTS:	Containerization, Orchestration, Agile/SCRUM, Microservices, Unit & integration testing, CI/CD
COURSEWORK:	Data structures, Algorithms, Databases, Object-oriented design, Networking, Operating systems, Combinatorics

## WORK EXPERIENCE

MAY 2020 - AUG 2020	<b>Software Engineering Intern</b> <i>MathWorks</i> <ul style="list-style-type: none"><li>Developed new features in a <b>Golang</b> microservice and a <b>React</b> dashboard, including unit and integration testing</li><li>Designed a custom <b>Kubernetes</b> controller to work with internal framework and manage dynamic deployments</li><li>Wrote design documentation and created proof of concept in <b>Go</b> investigating <b>Kubernetes</b> integration</li></ul>
AUG 2019 - CURRENT	<b>Senior 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 lectures over the course of the 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>30 competitive teams</b></li><li>Designed for and coordinated push to unify branding for the club and its events, including logos, graphics, and videos</li><li>Worked with team of officers to conduct corporate outreach and partner with campus administration for funding</li></ul> <b>Logistics &amp; Event Organizer</b> <i>Gamefest 2019</i> • <a href="#">gamefest.gg</a> <ul style="list-style-type: none"><li>Led a small team of organizers to plan and host a regional collegiate tournament with over <b>400 participants</b></li><li>Worked with campus administration to secure support and managed a team of <b>20 volunteers</b> working the day of the event</li></ul>
-------------------------	---

## PROJECTS

FEB 2020 - CURRENT	<b>rAdvisor</b> <i>Open-source system resource utilization tool for Docker &amp; Kubernetes</i> • <a href="#">elba-docker/radvisor</a> <ul style="list-style-type: none"><li>Developed a high-performance, concurrent CLI tool in <b>Rust</b> that monitors <b>Linux</b> cgroups and polls the <b>Docker</b> daemon</li><li>Conducted hundreds of distributed experimental workflows using <b>Python/Bash</b> to test 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>Continued working as a <b>research assistant</b> starting Fall 2020 at Georgia Tech to work on integrating this tool into a system performance monitoring toolkit</li></ul>
MAY 2019 - CURRENT	<b>Architus Full Stack Application</b> <i>Open-source chat bot &amp; API with web dashboard</i> • <a href="#">architus</a> • <a href="#">architus/architus</a> • <a href="#">architus/archit.us</a> <ul style="list-style-type: none"><li>Engineered front-end web application with <b>React/Redux</b> to consume, process, and display API data</li><li>Built microservice-based back-end using <b>Python/Flask</b>, <b>Rust</b>, <b>RabbitMQ</b>, <b>PostgreSQL</b>, and <b>Elasticsearch</b></li><li>Spearheaded migration to use <b>Kubernetes</b>, motivated by increased server load and growing user base (<b>40,000+ users</b>)</li></ul>
JAN 2019 - MAY 2019	<b>Risk Web Application</b> <i>Software engineering class group project</i> • <a href="#">jazevedo620/cs2340-risk</a> <ul style="list-style-type: none"><li>Engineered back-end and websocket-based network model in <b>Scala</b>, using <b>Akka</b> actors to process game and lobby state</li><li>Containerized application using <b>Docker/Alpine</b> and configured deployment on both <b>Kubernetes</b> and <b>OpenShift</b></li></ul>