

EMPLOYMENT

Software Engineer	TCS	Jan 2021 – Present
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- Developed integrations using the AWS SDK for Python (Boto3) to provide low-level access to AWS services such as S3 and Security Hub in order to perform actions available in those services.
- Created documentation that outlined the process of developing integrations which provided a go-to reference for the team.
- Developed test cases with Pytest to ensure integrations with AWS services produced the expected behavior.

Undergrad Research Assistant	Arizona State University	June 2019 – Dec 2019
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- Developed statistical models and performed data analysis on STEM retention recruitment and retention data provided from the University Provost Office using Python and R.
- Researched and documented trends in recruitment and retention at ASU from available data and created a research paper from our findings using LaTeX.

Supplemental Instr. Leader	Arizona State University	Jan 2019 – Dec 2019
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- Lead three one-hour long group tutoring sessions for Differential Equations on course-based study strategies ranging from 5 – 25 students.
- Collaborated with faculty to identify material that students may be having a hard time understanding to develop study strategies for greater student success.
- Created lesson plans for group study sessions before exams to articulate the course material in an efficient manner.

EDUCATION

Mesa, AZ	Arizona State University	Jan 2021 – Present
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- B.S.E. in Applied Mathematics, May 2020. GPA: 3.57
- **Relevant Courses:** Linear Algebra (MAT343), Discrete Mathematical Structures (MAT243), Differential Equations (MAT275), Probability (STP421)

TECHNICAL EXPERIENCE

Projects

- **Responsive Image Plugin:** Created a responsive image Eleventy plugin for dynamically generating responsive image markup using build-time image transformations with Sharp. Built with Node.
- **Go Fish:** Developed a Go Fish game in C++ where two players can play against each other or play against the AI. The results for each game are written to the file system for keeping track of match history.
- **Randoma11y Chrome Extension:** Created an extension that allows users to change the appearance of a webpage in Chrome by toggling a randoma11y theme with contrast ratio and WCAG AA/AA information.
- **Meta Tag Generator:** Developed an Eleventy plugin with Node that generates document metadata for the <head> of a webpage containing: Open Graph, Twitter card, generic meta tags and a canonical link.
- **News Application:** Built a news website with React, TypeScript, Node.js and serverless lambda functions provided by Netlify. News content fetched from the NY Times Top Stories API.
- **Personal Website:** Developed my website from the ground up using Eleventy, HTML, CSS/Sass, JavaScript, and Markdown.

Languages and Technologies

- C++, Java, HTML, CSS, Sass, JavaScript, Node, React, Python, SQL
- Visual Studio, Git, Eclipse, XCode