

# RAFAEL ROGERIO DOS REIS

<https://www.linkedin.com/in/rafaeldsreis/>

+1(504) 377-5633 ◇ San Diego, CA

[rafaelradr18@gmail.com](mailto:rafaelradr18@gmail.com)

## INTRODUCTION

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Seasoned software engineering professional with 5+ years of experience. I have consistently delivered exceptional results by collaborating with cross-functional teams to design and develop complex applications. My accomplishments include implementing time-saving solutions that automate data processing and validation, as well as enhancing code quality through full-stack developer tools. I have successfully scoped and delivered feature-rich web scraping tools, mentored new engineers, and demonstrated a strong commitment to continuous learning and delivering high-quality software solutions. I am excited to contribute my expertise and drive for excellence to your team.

## EDUCATION

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**Ba.Sc. Computer Science - University of Alaska Anchorage.**

2016 - 2019

Minor in Computer Systems Engineering and Mathematics

Individual Research: *Multi-agent systems approach to generative art.*

## EMPLOYMENT

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**Software Engineer III at Arcadia (remote)**

Jan 2020 - June 2023

*Washington, DC*

- Developed a file exchange application in Ruby on Rails, resulting in significant time savings of over 10,000 hours through automated utility data validation and processing, while maintaining data quality standards.
- Scoped and implemented a feature to collect and analyze interval data from utility websites in Python, incorporating data quality measures to ensure accurate and detailed electricity usage reporting for enterprise and non-enterprise customers.
- Utilized Lambda and SQS to implement a robust data extraction and transformation process, enhancing the efficiency of data processing by automating ETL operations and enabling seamless integration with utility-data endpoints.
- Implemented a streamlined CI/CD pipeline and PR review process, leveraging AWS services like CodePipeline to enable efficient deployment of new functionality and maintain high software development standards.
- Demonstrated proficiency in writing comprehensive tests in Python, JavaScript, and Ruby on Rails, focusing on data quality validation, regression prevention, and improved code coverage to deliver high-quality software applications.
- Consolidated code changes into a shared library, implementing data quality checks and standards while utilizing AWS services to optimize developer productivity and ensure consistent and reliable data across multiple web scrapers.
- Presented internal engineering/product talks to highlight the importance of data quality in software development, promoting best practices and fostering a culture of quality-driven development, with a strong emphasis on leveraging AWS tools like Lambda, Cloudformation, Queues and more.

**Software Developer Intern at GCI**

Jan 2018 - Dec 2019

*Anchorage, AK*

- Collaborated with team members on the designing, development, testing, deployment, maintaining and improving of software utilizing agile methodology.
- Wrote custom JavaScript, CSS and HTML to fit the customer's requirements.
- Created and designed databases to communicate with software.
- Utilized php to build plugins and widgets for Wordpress.

## Information Technology Intern at GCI

Jan 2017 - Jan 2018

Anchorage, AK

- Provided a comprehensive patch and vulnerability report as well as fixes.
- Used LabTech as a remote and management tool and install LabTech agent on several servers and computers remotely.
- Performed report and remediation planning
- Monitored hard drive space, suspicious activities, services, installed software, and registry editor for several hundreds of computers.
- Answered calls and supported clients with IT issues.

## SKILLS

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**Technical Skills:** Python, Ruby, JS/CSS/HTML, C/C++, SQL, RestAPIs, CI/CD, Postgres

**Frameworks and Libraries:** AWS (Lambda, S3, Logs, DynamoDB, SQS, Cloudformation) Rails, Flask, React.js, Node.js, FastAPI.

**Monitoring:** Datadog and AWS Logs.

**Other:** Integration/unit testing, CI/CD, Git, npm, yarn, RFCs, Jira, Github, Agile, PDF parsing, OCR.

## PROJECTS

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**Utility Data Integration in Rails App (Arcadia)** - Built a feature to fetch, analyze, process and ingest thousands of utility-data points provided by a partnered utility on a monthly basis.

**Data Validation Tool for Utility Scraped Data (Arcadia)** - Built a front/back end application with React.js Flask (Python) and AWS to enable engineers to visualize, compare and analyze scraped data.

**Session Storage with IndexedDb (Arcadia)** - Developed within an existing service the ability to re-create authenticated sessions in a web browser.

**Interval-Data and metadata collection from various Utility providers (Arcadia)** - Built several web-scrapers in Python to collect interval-data and statement data from many utility websites using python requests and OCR to parse PDFs.

**GCI Blog (GCI)** - Developed a search algorithm that allowed customers to search for devices under one or many categories, minimizing need for third party libraries.

**Search Algorithm for mobile product page (GCI)** - Developed a search algorithm that allowed customers to search for devices under one or many categories, minimizing need for third party libraries.

**Designed new front-end page for intranet website (GCI)** - Designed a new front-end for the GCI intranet website allowing employees to quickly find content and be efficient in the workplace

**Low-accuracy DNA assembler in python (College)** - Developed an app that is able to assemble small FASTQ data samples via deBruijn Graph method.

**File system implementation with C (College)** - Simple file system developed in C.

**US Coast Guard IOS Application (College)** - Swift mobile app used to capture environmental and vessel data for the winter months.

**Multi-agent systems approach to generative art (College)** - Swift mobile app used to capture environmental and vessel data for the winter months.

**Vsiolab (Personal Project)** - Exploring generative art in creative ways with Javascript, Java and Python.