

Parker Swanson

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EDUCATION

University of Wisconsin-Madison

09/2019 - 05/2023

Bachelor of Science, Computer Science and Data Science

- 3.83 GPA

WORK EXPERIENCE

Software Engineer Intern | Salesforce, Seattle, WA

05/2022 - 08/2022

- Added support for an approximate unique query function that runs on datasets with over 2 billion rows
- Utilized the HyperLogLog++ algorithm in GoLang to allow queries to be distributed and run in parallel, increasing performance by 5x

Software Engineer Intern | Datadog, Manhattan, NY

01/2022 - 04/2022

- Implemented Kubernetes pod autoscaling for our caching deployment's Redis instances and API servers, eliminating manual scaling while adding the ability to handle rapid load increases and decreases for over 50 caches
- Created a CLI using GoLang to give users an effortless platform to send requests to their team's caches

Software Engineer Intern | Capital One, McLean, VA

06/2021 - 08/2021

- Constructed an XGBoost model in Python to run in parallel with an existing model, allowing credit card collections data to be A/B tested and scored 2x more efficiently than before
- Deployed and maintained the model using Docker, Kubernetes, and Seldon

Software Engineer Intern | Curate Solutions, Madison, WI

05/2020 - 09/2020

- Enhanced data gathering process using Typescript and NodeJS, decreasing data collection error rates by over 50%
- Developed a RESTful API in Python to help communicate user/organization data for a new customer dashboard
- Created unit tests using Jasmine and Karma within Angular to restore the CI/CD pipeline

Software Engineer Intern | LiquidSpace, Palo Alto, CA

05/2018 - 08/2018

- Designed program using Python and Selenium to autonomously upload office workspaces and their data to Craigslist, saving 10 minutes per workspace and 100 hours in total

SKILLS

Languages - GoLang, Python, Java, C, SQL, R, HTML, CSS

Tools/Technologies - Git, Linux, Kubernetes, Docker, Redis, PostgreSQL, Django, Flask, pandas, PySpark, Matplotlib, BeautifulSoup, PyTorch, Sklearn, NumPy, Selenium, Agile, Jira

PERSONAL PROJECTS

Lyric Analyzer - madlabs.dev

- Takes in a song input by name, artist, or lyric segment and gives an in-depth analysis
- Uses Python, the Genius API, and BeautifulSoup on the backend with HTML, CSS, and Bootstrap on the frontend
- Runs with Heroku and the Django web framework and stores 1000's of songs in a Postgres database

Python To Java Translator - madlabs.dev/translator/

- Receives blocks of Python code and translates them to Java, giving users an agile conversion
- Operates with Python/Django on the backend and HTML, CSS, and Bootstrap on the frontend

EXTRACURRICULARS

Vice President | Software Development Club, UW-Madison

04/2020 - 12/2021

- Taught over 400 members unique and important software tools and languages like Git and Python