

Joey Rose

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EDUCATION

Occidental College

Bachelor of Arts in Computer Science, minor in Mathematics

Los Angeles, CA

Expected May 2022

Cumulative GPA: 3.88 | Dean's List 2018 – Present | Co-President of [Oxy Open Source](#)

SKILLS

Languages: Python, Java, Go, SQL, JavaScript, HTML, CSS

Tools: AWS suite, Docker, Kubernetes, Flask, Node.js, Pandas, Git, GitHub, GitLab, JIRA

EXPERIENCE

VMware

Palo Alto, CA

Software Engineer Intern

May 2021 - Present

- Using **Go** to help make Tanzu Gemfire, a distributed key-value store, run on **Kubernetes**

Promethium

Menlo Park, CA

Software Engineer Intern

Jan 2021 – May 2021

- Created **low-cost, multi-tenant** capable trial version of product that integrates with Promethium's SSO. Utilizes AWS Cognito, Lambda, S3, EC2, and CloudFront
- Developed multi-tenant **ELT pipeline** using AWS AppFlow, AWS Glue, Snowflake, and Redash, acting as **10x cheaper** alternative to Presto
- Provided high-level **infrastructure designs** for future bronze-tier version of product

Promethium

Menlo Park, CA

Software Engineer Intern

May 2020 – August 2020

- Programmed backend API that uses an **AWS Lambda** Stepfunction, **DynamoDB** job table, and **S3** to run asynchronous SQL queries **2x faster**
- Created **website** that visualizes status of 10+ GitLab repository pipelines and code coverages at a glance
- Wrote unit tests for SQL query API, increasing code coverage **80%**
- Carried out **smoke and regression tests** to evaluate the efficacy of product components before their release

Occidental College

Los Angeles, CA

Prospect Research Intern

May 2019 – May 2020

- Developed **Python** script to extract gift matching information on ~1,300 companies and **identify 300+ undetected alums** working at such companies
- Found **50+** deceased alums not yet detected using named-entity recognition and cross-references with ~30,000 alums using minimum edit distances in **Python**
- Created tool using **Python** to visualize paths of relatedness between any two members in database
- Worked in Oracle SQL Developer extensively, **querying school database** on a daily basis

PROJECTS

[oxyos.github.io](#), **Oxy Open Source**, Occidental College – Project Lead

- Leading a team of 3 to modernize club website
- Made site **responsive**, integrated club calendar, and fixed numerous bugs

NBA Clutch Project - Creator

- Web app with **Flask** backend, visualizes data from stats.nba.com to compare clutchness amongst players
- Supports the comparison of up to 5 players across **20+ different stats**

Oxy Confessions Project - Creator

- Web app with **Node.js** backend, displays word frequencies across **22,000+ posts** in milliseconds
- Backend safely generates **parameterized SQL queries** to pull records from a MySQL table