

PETER MUNN

San Diego, California

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EDUCATION

Cornell University

Computer Science – Bachelor of Arts – 3.6 GPA

Aug. 2018 – May 2021

Ithaca, New York

EXPERIENCE

Google

Software Engineer - Ads Infrastructure and Gemini Infrastructure @ Google DeepMind

December 2024 – Present

Los Angeles, California

- Designed and implemented automatic AI model regression detection for faster model iteration)
- Wrote SQL queries to analyze and compare thousands of test results to detect best performing AI models
- Integrated APIs into CI/CD pipelines to automatically categorize and file tickets using gRPC, python, and bash scripting

GoDaddy

Software Development Engineer III - Data Platform Infrastructure

April 2022 – December 2024

San Francisco, California (remote)

- Designed, implemented, and led cross-team adoption of backend data lineage APIs for thousands of data sets using Python and AWS DynamoDB and created frontend graph visualization using Javascript, Next.js, React, HTML, and CSS
- Designed and implemented new features for central Data Lake using Python, AWS LakeFormation, AWS Glue, DynamoDB, and Alation API integration
- Designed solutions to reduce 55% of company-wide S3 costs and 20% of Redshift and Athena query execution costs using Python, AWS Lambdas, and AWS EventBridge APIs
- Improved CI/CD process using Python, GitHub APIs, and integrating Slack and ServiceNow APIs
- Implemented atomic operations in Apache Airflow Python Operators to harden against network errors
- Improved data importer clean layer to use multiple outputs and streaming target using Python

Amazon

Software Development Engineer I

July 2021 – March 2022

San Diego, California (remote)

- Migrated legacy payment system from C++ to Java by rewriting components, conducting shadow-tests, and running A/B tests while monitoring metrics in AWS
- Implemented new APIs and features in backend chargeback document generation using Java with unit testing using Mockito and EasyMock
- Implemented alarm systems in AWS and conducted chaos and integration tests using Python to ensure system resiliency

Canto Software

Software Market Analyst Intern

May – August 2019

San Francisco, California

- Used Python for web-scraping and analysis of data on digital-asset-management software market trends

PROJECTS

Research @ Cornell McMahon Lab for Quantum Computing | *Python, PyTorch*

August – December 2019

- Developed neural network models for simulated physical computer (coherent ising machine) using Python and PyTorch

Obstacle Detection Hat milstein-program.as.cornell.edu/h-t-seeing-sound | *Python, C*

August 2019 – December 2020

- Designed and created hat that detects obstacles in a 60 degree arc using ultrasonic sensors and circuitry skills
- Implemented software for converting physical distance measurements into sounds using Python and C
- Designed and conducted interviews with people with low vision for market research

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, OCaml, ARM Assembly, Bash scripting

Technologies/Frameworks: AWS, Kubernetes, Docker, React, Next.js, CytoscapeJS, GraphQL, Apache Airflow, Helm

Developer Tools: Kibana, Google Analytics, ServiceNow, Github Actions, Insomnia, Alation