

Zachary Ellison

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Education

HARVARD UNIVERSITY

Bachelor's in Computer Science

Cambridge, MA

December 2021

Relevant Coursework: Systems Programming and Machine Organization, Theory of Computation, Systems Development, Statistics, Networking at Scale, Computation Abstraction & Design

Work

QA ANALYST

Boulder QA and Consulting

Remote

January 2020 – Present

- Performed QA analysis on over 1000 Test Cases
- Utilized Google G-Suite, Jira, Figma, Slack for testing statistics and team work
- Found and fixed over 100 bugs in QA support
- Successfully managed a full course load in school alongside part time and full time work

ANALYTICS INTERN

Activision Publishing Inc

Boulder, CO

September 2018 – August 2019

- Implemented backend data pipeline to ingest 15M+ posts from social media feeds
- Performed real-time sentiment analysis, identifying key influencers of over 600k users
- Created, iterated, and maintained an internal web tool to provide full-text search of 1M+ data schemas
- Active daily use of Python 3, SQL, Presto, Flask, React, Javascript, D3, Elasticsearch
- Collaborated with the Analytics team on a variety of gameplay data tools to provide timely and actionable insights
- Maintained and supported a customized deployment of the open-source Redash dashboarding platform
- Presented 3 times on engagement data findings with statistical significance of 99.9% certain correlation

Projects

Machine Learning/Vision

- PARKING – OpenCV on a RaspberryPi4 to analyze parking lot available spaces Spring 2020

Web Design

- PORTFOLIO – Website integrating GatsbyJS, React, Semantic UI, and Vercel Fall 2019
- SIMPLE CLOUD – Built a basic cloud storage site using Python, Flask, MongoDB Winter 2017

Mathematics

- AUTODIFF – Led and managed a team of 4 build a library for automatic differentiation Fall 2020
- MATRICES – linear algebra operations for homework – sparked my passion Spring 2018

Technical Skills

- **Languages:** Python, C, C++, OCaml, Javascript, Lua, HTML, CSS, LaTeX, Bash, React, Node
- **Databases:** PostgreSQL, SQLite, SQLAlchemy, MongoDB, Elasticsearch
- **Frameworks:** Flask, GatsbyJS, Pandas, Matplotlib, NumPy, GraphQL, Bootstrap, Semantic UI, D3, AJAX
- **Tools:** Kubernetes, AWS, Docker, Git, Jenkins, Vercel, Atlassian, JIRA, CodeCov, TravisCI, NPM

Leadership and Activities

Early College of Arvada (ECA)

Arvada, CO

Ambassador

August 2015 – May 2016

- Guided volunteer groups to 7 charity events
- Delivered lectures in 5 subject areas to over 10 classes
- Mentored 35 students through graduation

Interests

Meditating in the early mornings, Playing Games with my daughter, Playing Pathfinder with my fiancé, Running, Road trips, Reading short stories, Habitat for Humanity construction, Hiking