Royce Schultz

Software Engineer

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GitHub, LinkedIn: royceschultz
Dual Citizen: USA & Iceland

Education

New York University

M.S. Computer Science, Cum Laude
Awarded Merit-based Scholarship
Graduated December 2022, 3.8 GPA

University of Colorado

B.S. Computer Science
Minor Applied Mathematics
Graduated May 2021, 3.5 GPA

Skills

Specialization: Git, Docker, Python, JavaScript, SQL, MongoDB, Bash, Linux, Arduino/ESP , Home Assistant

Proficiency: C, C++, Typescript, ThreeJS (WebGL), ETL Pipelines, AWS, Fusion360 (CAD), Kibana, Looker, Jira, Confluence, Code Reviews

Competency: ROS, HPC, Tensorflow, PyTorch, Scala, Rancher, Kubernetes, RedShift (Data Warehousing)

Industry Knowledge: Robotics, Autonomous Vehicles, Geospatial Data, Algorithms, Computational Geometry, CNC Manufacturing, Applied Statistics, Machine Learning, Object Detection, Teaching, Technical Communication

Hobby: FPV Drones, Endurance Cycling

Relevant Experience

TuSimple, Autonomous Trucking

Software Engineer, May 2022 - December 2022

Contributed to software projects that support the development and operation of autonomous vehicles.

Lead development of a Looker (Google Cloud) data visualization dashboard to monitor map metrics.

Built distributed data pipelines to apply computational geometry algorithms over hundreds of gigabytes of map data.

Created data visualization tools in a 3D webGL environment to aid downstream teams in research and validation.

Supported release of a new web portal used to manage geographic markers of hazard zones.

University Finance Lab

Research Assistant, September 2020 - May 2021

Developed data pipelines to gather and process financial data from multiple sources.

Deployed system infrastructure to make data available for peers.

Researched natural language processing algorithms used to analyze TV news transcripts on the order of 10GB.

Parsed data from 60,000 images of scanned financial texts using a computer vision model tuned on a custom dataset.

Amazon

Software Engineering Intern, May 2020 - August 2020

Supported infrastructure used to gather IOT device metrics that provide quantitative insights for business intelligence.

Deployed a web portal used to distribute data across internal teams while protecting customer privacy.

Developed algorithms to identify erroneous metrics in a massive data warehouse to ensure quality data for downstream research.

Other Experience

University Math Department

Course Assistant, Fall 2021 - Spring 2022

University Math Department

Course Assistant & Tutor, Spring 2017 - Spring 2020