

EDUCATION

California Polytechnic State University, San Luis Obispo — 2019

- › Bachelor of Science in Computer Science

EXPERIENCE

Software Development Engineer, Amazon Web Services, 2019 - Present

- › Improved performance and capability of AWS Infrastructure's fulfillment planning algorithm by collaborating with multiple key stakeholders. Rack order fulfillment rate increased by ~14%, delivering hundreds of additional server/network racks without delay.
- › Led Power Replenishment Planner project efforts from design to documentation and support, launching new system which more accurately plans for millions of dollars of AWS data center power infrastructure.
- › Migrated replenishment planning algorithm's core decision making logic from hard-coding to new configuration based framework which is more flexible, debuggable, and scalable.
- › Resolve on-call escalations with root cause analysis and mitigation documentation.
- › Streamlined the team's performance by integrating code analysis tools and lowered operational costs by reducing unnecessary cloud storage usage.

Software Development Engineer Intern, Amazon Web Services, Summer 2018

- › Developed a service that detects differences in fields between server forecast versions and presents the changes in an easy to read format.
- › Leveraged a wide range of AWS services, such as Lambda, DynamoDB, API Gateway, S3, and CloudFormation.

SKILLS

- › Languages: Java, Python, SQL, C, R
- › Tools: AWS Batch, Step Function, S3, EC2, CloudFormation, Lambda, SNS, Git, Docker, Dagger, Linux

PERSONAL PROJECTS

Radio Tomographic Water Flow Detection

- › Collaborative multidisciplinary research project that explored the capabilities of neural networks to identify humans and objects using captured Wi-Fi signals.
- › Personal responsibilities included hardware setup, experimental design, data collection, neural network hyper-parameter tuning, and data analysis.
- › Results of the study have since been published by the IEEE Vehicular Technology Society.

NBA Finals Predictor

- › Data science project that involved web scraping, data exploration, data visualization, and a classifier that predicts the winner of the NBA finals.
- › Notable correct prediction was the 1995 NBA Finals where the sixth seed Houston Rockets defeated the first seed Orlando Magic.