Hunter Palcich

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(Willing to Relocate)

EDUCATION

UNIVERSITY OF CINCINNATI | Bachelor of Science, Biomedical Engineering   Fall 2013 - May 2018
- **GPA:** 3.7/4.0

GEORGIA INSTITUTE OF TECHNOLOGY (GT) | Master of Science, Computer Science   Fall 2019 - Present
- **GPA:** 3.4/4.0

WORK EXPERIENCE

SYSTEMS DEVELOPMENT ENGINEER
Amazon / Seattle, Wa / Oct 2020 - Present
- Generate data pipelines to extract, transform and load data into databases (AWS RDS/Redshift).
- Designed and developed internal website to host serverless flask dashboards to provide near real time head count insights for hundreds of daily warehouse OP's users.
- Configured Spark clusters via AWS EMR to allow teams to run massive analytical jobs independently from Redshift.
- Lead deep dive into shipment tracking data quality issues, achieving an improvement from 18% to 51% track rate.
- Managed pre-existing code base as well as provided major upgrades to applications such as migration of large rails applications from rails 3 to rails 6.
- Maintain new and existing CI/CD pipelines for projects that affect thousands of internal users.
- Design/Allocate infrastructure systems in AWS for the team.
- Provide guidance to team members on best practices for coding and system design.

MACHINE LEARNING ENGINEER
Olive / Columbus, Ohio / Jan 2020 - Oct 2020
- Generate data pipelines to extract, transform and load data into databases (AWS Athena/ AWS Redshift).
- Created python scripts to extract and clean database data for the analysis team to utilize.
- Worked with the engineering team to create POC's for getting around reCAPTCHA as well as internal profiling tools for RPA projects.
- Helped create best practice protocols and documentation for a newly formed team.
- Worked on the interview team to assist in the hiring of Software Automation Engineers.

Software automation Engineer
Olive / Columbus, Ohio / May 2019 - Jan 2020
- Developed automation workflows for Robotic Process Automation projects.
- Utilized Node.js, Javascript, XPath, JSON and internally tooling to create the workflows.
- Assisted engineering team with internal tools feedback and Proof of Concepts.
- Technical resource for other RPA projects and project scoping meetings.
- Primary resource in customer meetings to assist with project communication and technical resources.

PROJECTS

- Reinforcement Learning: Lunar Lander
  - Trained a model to land the lunar lander via a Deep Q-Learning Network.
  - Resulting model achieved a near perfect average score by using a neural network to estimate the Q values of the game's state.
- Multi Threaded web server/client
  - Using C++ I created a multi threaded web server that connected via IPC to the client. The server also utilized a cache server for recently used files. Eventually this project moved to using gRPC for the communication method.

SKILLS

- Languages: Python, SQL, Ruby, Javascript, Typescript, Shell, C, C++, R, Java, MATLAB, VBA
- Databases: RDS (Mysql, Postgres), DynamoDB, Redshift
- AWS: API Gateway, CloudFormation, CloudFront, CloudTrail, CloudWatch, DynamoDB, EC2, EMR, IAM, Kinesis, Lambda, QuickSight, RDS, Route53, S3, Secrets Manager, SNS, SQS, VPC
- OS: Windows / Linux / Mac
- Tools/Libraries/Certifications: Scikit-learn, Docker, CI/CD, NumPy, Pandas, Spark, Hive, TensorFlow, Git, gRPC, OpenCV, Selenium, Six Sigma Green Belt