Spencer Strickland

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Skills & Abilities

Programming:

- Python (Flask, TensorFlow, Pandas, Scikit-learn)
- JavaScript (Angular, React, Node.js, JQuery, Electron)
- C# (ASP.NET, Entity Framework, NUnit)
- Haskell
- Bash
- Java (Junit, Spring)
- C++ (Embedded Programming / Arduino)
- SQL (PostgreSQL, MySQL, SQL Server, NoSQL, mongoDB)
- Lua
- R (ggplot2, dplyr, tidyr)

Tools:

- AWS (EC2, SageMaker, S3, Lambda, API Gateway, Elastic Beanstalk, RDS, Elasticsearch)
- Scrum / Agile product development process
- Azure (App Service, Function App)
- Docker, Kubernetes
- Git and other CLI / Linux utilities
- Networking (UDP, TCP)
- SOLID OOP design (MVC, Microservices)

Experience

Software Engineer | Aug 2019 – Oct 2019 | *Slalom, Seattle*

Built and maintained an API using Azure SQL Server, C# ASP.NET, and AngularJS. Primary focus was extending an internal consultant matchmaking service to accommodate infrastructure changes in the company. Implemented a full REST suite by using a full web stack, along with its database infrastructure updates, and back-end improvements.

Software Engineer Intern | June 2019 – Aug 2019 | *Slalom, Seattle*

Built a web portal for consultants to view upcoming job opportunities at the company using C#, Azure SQL server, and AngularJS. Went through the lifecycle of a software product with weekly Agile scrum meetings. Increased traffic to the site by 110% for the following month, tracked with Azure telemetry.

Projects

Mini Rover GUI

Designed and implemented a user-friendly interface for piloting the “Mini Rover” RC car from robotics club at university. Used Python to display the controls and pass commands to the rover via UART. Wrote the C++ embedded code to pilot the rover using Bluetooth communication over serial ports. It was showcased at a local STEM event for kids and the GUI was used by attendees to drive the rover prototype.

API Traffic Monitor

Architected and lead a team to implement a serverless cloud solution for Expedia to monitor microservice API failures by utilizing AWS. Retrieved JSON files from an S3 bucket, performed ETL on the incoming data via Lambda, classified the API traffic data via SageMaker to notify Expedia of upcoming API failures.

Questie

Contributed to an open source World of Warcraft add-on that has a reach of over 10M worldwide users by fixing outstanding bugs, implementing feature requests, and writing unit tests. Utilized a standard Git workflow of merge requests, code reviews, and branching in order to collaborate with the existing dev team to contribute to the community.

Education

B.S. Software Engineering (Cum Laude) | May 2020 | *Washington State University*

GPA: 3.65
Coursework: Parallel Computing, Web Dev, Architecture and Design, Distributed Systems, Database Systems, Cloud Computing, Data Structures, Object-Oriented Software Principles, Big Data, Multivariate Statistics
Activities: IEEE Robotics, Hackathons, ACM, Engineering Club