Kyle Feng

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Education

University of North Carolina at Chapel Hill Expected Graduation: May 2019
Bachelor of Science, Computer Science. Current GPA: 3.527
Relevant Courses: Discrete Mathematics, Data Structures, Computer Organization, Computer Security Concepts, Algorithms and Analysis, Models of Languages and Computation, Linear Algebra, Computer Graphics, Programming Language Concepts
Current: Operating Systems, Files and Databases, Introduction to Probability

Experience and Projects

Capital One *Technology Development Program Intern* June 2018-August 2018 Richmond, VA
- Designed a microservice that simplifies deploying Docker containers to multiple AWS regions
- Implemented input sanitization, token-based authentication, and templates for different types of deployments
- Languages and frameworks used: Go, Docker, AWS EC2, Jenkins, Hashicorp Nomad, Hashicorp Vault

Machine-Assisted Music Composition February 2018 - current Chapel Hill, NC
- Currently part of a project to help disabled children compose music easier using technology, led by UNC Professor Gary Bishop. The music is initially composed using Markov chains and recurrent neural networks, and automatically modified based on the user's preferences.
- Languages and frameworks used: Python, Flask, Tensorflow Magenta, JavaScript

IBM *CIO IT Intern* June – August 2017 Raleigh, NC
- Worked on developing an internal web application for onboarding and monitoring company assets.
- Developed the API for communication between the web application and the server.
- Designed visualizations using D3 for monitoring the status of an asset.
- Engineered real-time communication between the server and client for notifications using WebSockets.
- Languages and frameworks used: Java EE, JAX-RS (REST API), Angular 2, Cloudant DB, WebSockets, D3

Educational Programming Platform November 2016
- Currently developing a website to help teach children basic programming concepts using turtle graphics.
- This personal project is inspired by educational websites such as Khan Academy, Turtle Academy, Code Academy, and Scratch.
- Implemented the front-end design, turtle graphics API, and wrote a few lessons.
- Languages and frameworks used: JavaScript, jQuery, p5.js, Ruby/Opal, Python, Lua, Webpack, Vue.js

Skills

Programming languages: Java, JavaScript, C#, C++, Python, Go
Frameworks: Angular 2, Bootstrap, Node.js, Liberty WebSphere
Tools: Docker, Hashicorp Nomad, Hashicorp Vault
Other:
- Experience in system admin tasks, such as configuring a network, installing or resetting an OS from a installation disk or recovery partition.
- Able to adapt to any environment and set of tools I am given; I have extensive experience in Windows, Linux-based OSes, and macOS, and can work comfortably in either a command-line interface or a GUI.

Awards, Achievements, and Honors

UNC Dean's List 2017, 2018
Capital One Intern Hackathon, 1st place June 2018