Kyle Feng

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Education

University of North Carolina at Chapel Hill

Bachelor of Science, Computer Science. Expected Graduation (BS): **May 2019**

Prospective Masters of Science, Computer Science. Expected Graduation (MS): **May 2020**

Dean's List Spring 2017, Fall 2017, Spring 2018 Current GPA: 3.527

Relevant Courses: Computer Graphics, Computer Security Concepts, Programming Language Concepts Operating Systems, Files and Databases, Data Structures and Algorithms, Linear Algebra

Experience

Capital One *Technology Development Program Intern* Richmond, VA **Jun. – Aug. 2018**

- Designed a microservice that manages the deployment of Docker containers to multiple AWS regions using Hashicorp Nomad, with the goals of security and ease of use
- Provided an interface that developers could use to deploy an application in less than 10 minutes
- Consolidated token management for each team, reducing number of tokens from 6 to 1
- Minimized boilerplate configuration, reducing a typical deployment config from 100 to 20 lines of code

IBM *CIO IT Intern* Raleigh, NC **June – Aug. 2017**

- Worked on developing an internal web application for onboarding and monitoring company assets.
- Developed the API that the web application used to communicate with 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

Capital One *Software Engineering Summit* Arlington, VA **June 2017**

- During the hackathon, my team created a prototype of a group investing app that won first place

Projects

Machine-Assisted Music Composition UNC-Chapel Hill **Feb. 2018 – current**

- 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.

Turtle Graphics Educational Platform **Nov. 2016**

- Developed a webapp to help teach children basic programming concepts using turtle graphics, inspired by educational websites such as Khan Academy, Turtle Academy, Code Academy, and Scratch

Skills

Programming languages: Java, C++, JavaScript, C#, Python, Go, Lua

Frameworks: Angular, React, Bootstrap, Node.js, Liberty WebSphere

Tools: Docker, Webpack, vim

- System administration for Windows, Linux, macOS
- Comfortable in shell scripting and command-line interfaces

Awards, Achievements, and Honors

Capital One Intern Hackathon, **1st place** Richmond, VA June 2018

Capital One SWE Summit Hackathon, **1st place** Arlington, VA June 2017

HackNC, **Cybersecurity challenge winner** Chapel Hill, NC Oct. 2016