

# Tiger Zhang

NEW GRAD SOFTWARE ENGINEER

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## Education

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### University of Texas at Austin (GPA: 3.73)

Austin, TX

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

Aug 2017 - May 2020

- *Relevant Coursework:* Operating Systems, Computer Architecture, Networks, Cloud Computing, Virtualization\*, Data Structures, Introduction to Security\*, Ethical Hacking\*, Algorithms, Programming Languages, Discrete Math, Number Theory, Applied Regression\*
- \*denotes currently enrolled

## Experience

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### Trend Micro

Austin, TX

RESEARCH AND DEVELOPMENT INTERN

May 2019 - Aug. 2019

- Developed a client-server application to integrate an existing application with Slack using AWS and WebSocket connections in Node.js and Java
- Designed and implemented a serverless backend with AWS resources (Lambda, API Gateway, SQS, S3, DynamoDB)
- Constructed a multi-threaded client application with Java Spring Boot as a microservice
- Collaborated with a fellow intern to architect a microservice framework microservice framework that co-exists alongside the monolithic application
- Prepared a presentation and demoed the project to the entire company at the end of the internship

## Projects

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### BluePlayer

Cloud Computing

PYTHON, KUBERNETES, DOCKER, AZURE, JENKINS

May 2019

- Created a web app hosted on Azure that allows for personal music streaming through file uploads
- Deployed a Jenkins server in AWS to optimize workflow using CI/CD which deployed the application on a Kubernetes cluster in Aure Kubernetes Service
- Encoded uploaded files for streaming using Azure Media Services

### new-tab-album

Personal

JAVASCRIPT

Feb. 2019 - March 2019

- Developed a Chrome extension to change the new tab background to a random picture picture in a root directory
- Constructed an associated Chrome App as a workaround to access the local filesystem

### flybuy

TAMUHack 2019

MATERIALIZE, ELECTRON, JAVASCRIPT

Jan. 2019

- Constructed an application to upgrade the customer experience on flight with a team
- Designed and implemented a page that displays real time bathroom availability
- Integrated with teammates through Git and pair programming
- Won 3rd place for Best Airline Industry Hack

### Pintos

Operating Systems

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Aug. 2018 - Dec. 2018

- Implemented a toy OS to include priority scheduling, argument passing on the stack, system calls for user programs, virtual memory, and converted the existing simple file system into an multi-indexed file system with directories (FFS)
- Collaborated with teammates to come up with optimal solutions and implemented them using pair programming

## Skills

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**Technologies** AWS, Docker, Kubernetes, Azure, Git, Express.js, Serverless, Linux, Networking

**Programming Languages** Node.js, Python, Java, C, R, Haskell, HTML

**Languages** English, Chinese