

# NATHAN HOANG

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## EDUCATION

### University of Texas

#### Austin, TX

BS in Computer Science

May 2021

Certificate in Applied Statistical Modeling

**GPA: 3.92**

## SKILLS

C • Python • Java • Typescript  
React • Redux • Express • NodeJS  
Azure • Spark • Bash  
PowerShell • ROS • Hadoop  
Scala • C++ • SQL • Git • Unity

## COURSEWORK

Operating Systems  
Algorithms  
Computer Architecture  
Compilers  
Discrete Mathematics  
Software Engineering  
Linear Algebra

## ACTIVITIES AND HONORS

### Competitive Programming

Regularly compete in competitive programming competitions | 2017 – Present

### College Scholar

Top 20% of college | 2019

### Varsity Tutors

Professional tutor for AP Computer Science | 2019

## LINKS

GitHub  
github.com/nathanhoang5  
LinkedIn  
linkedin.com/in/nathanhoang5

## EXPERIENCE

### WP ENGINE

*Software Engineering Intern | Summer 2019*

- Enhanced error diagnosis and facilitated customer transparency using React/Redux/Typescript frontend and Node/Express backend to develop dashboard that allows for analysis and visualization of site metrics
- Developed responsive React components for library used in production signup and payments page
- Implemented extensive features including routing, custom graph filtering and data selection, custom date ranges, and lookup

### ADVANCED MICRO DEVICES, INC.

*Data Engineering Intern | Summer 2018*

- Improved efficiency of processing and querying large logfiles by engineering data pipeline on distributed system using Scala, Hadoop and Spark MapReduce
- Decreased time to replicate and manage replications of virtual machines to Azure by 95% using Azure PowerShell cmdlets and Zerto API

### RADIONAVIGATION LAB AT UT AUSTIN

*Research Assistant | Summer 2016 and Summer 2017*

- Implemented a real-time probabilistic path-planning service for quadcopter in C++
- Automated simultaneous localization and 3-D mapping in a quadcopter simulation environment

## PROJECTS

### MENTOR ME | Company Hackathon, 2019 | Won two awards

- Worked with team of three software engineers to create a mentor/mentee matching application
- Wrote serverless backend using Firebase functions and Firestore (NoSQL database), and connected React frontend to API

### DAIMLER VOICE ASSIST | Daimler Trucks Hackathon, 2019

- Voice controlled React application to allow truck repairmen to perform hands-free truck diagnostic and repair
- Integrated speech recognition and NLP libraries and opened socket connection between Python node and React frontend

### DEEP LEARNING WITH OPENAI GYM | Personal Project, 2019

- Wrote Python Deep Q-Learning algorithm using only numpy library to solve classical deep learning problems

### PASCAL COMPILER | Class Project, 2019

- Wrote a Pascal compiler and assembler using Yacc and C