

# Amey Khairnar

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## Education

### University of Texas at Arlington

BS Computer Science  
Minor Mathematics

#### Cum Laude

May 2021 • GPA 3.55/4.0

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## Coursework

Algorithms & Data Structures  
Software Engineering  
Software Testing  
Database Systems  
Software Project Management  
Operating Systems  
Theory of Computation  
Artificial Intelligence  
Discrete Mathematics  
Probability & Statistics  
Mathematical Models  
Linear Algebra

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## Skills

### Languages

TypeScript/JavaScript, Python,  
C/C++, Java, SQL, Bash

### Frameworks/Libraries

ReactJS, Flask, Bootstrap,  
SQLite, Matplotlib

### Cloud Technologies

AWS, Heroku, Firebase, Google  
Cloud Functions, Serverless

### Other

Git, Agile/SCRUM, Linux, L<sup>A</sup>T<sub>E</sub>X

## Experience

### Software Development Engineer @ Amazon Robotics

Westborough, MA • Oct 2021 -

- ◇ Implemented fault detection system for warehouse robots such as drive units, safety vests, and drive chargers. This is a continuous analysis system that automatically issues work tickets to relevant parties on detecting or predicting faults.
- ◇ Design and implemented on automated firmware deployment systems for safety vests, drive units, and others spanning an always-on fleet of 600,000 plus devices.
- ◇ Worked on multiple data pipelines and micro-services applications for aforementioned drive unit fleet.
- ◇ Worked on script injection for drive units to extract logs and other drive data.
- ◇ Serverless • TypeScript, React • Python, Flask • AWS Lambda, Dynamo, API Gateway, SNS, SQS

### Software Engineer Intern @ Lenovo

Morrisville, NC • June - Aug 2020

- ◇ Worked on the portal for Smart Office's ThinkSmart devices.
- ◇ Designed the architecture and implemented the frontend for export users story, and performed spike analysis for the backend.
- ◇ Completed spikes for security features and resolved various fullstack story tasks for the portal.
- ◇ Wrote data aggregation scripts for product owner to gain insight into the state of the product over Organizations, Devices, etc.
- ◇ TypeScript, Angular • Java, Spring • MongoDB

### Peer Academic Leader @ UTA

Arlington, TX • Aug 2018 - Dec 2020

Taught UNIV-EN 1131 'Student Success' classes, of about 30 students, twice a week in collaboration with an engineering faculty.

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## Projects

### LED Scoreboard

2020 - 2021

- ◇ Senior Design project powered by Raspberry Pi to display scores for different leagues such as NHL, NBA, MLB, and La Liga.
- ◇ Implemented NHL API integration and built the functionality to render game components on the LED board.
- ◇ Hosted various project meetings as the SCRUM master of the team.
- ◇ Python, rpi-rgb-led-matrix • Raspberry Pi