

# KEVIN JIN

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## EDUCATION

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**The University of Texas at Austin**

Austin, TX

**B.S. Mathematics, Computer Science; Turing Scholars Honors Program**

August 2019 - May 2023

Cumulative GPA: 3.86/4.00

*Coursework (\* = honors):* Algorithms\*, Data Structures\*, Computer Architecture\*, Operating Systems\*, Data Mining\*, Computer Graphics\*, Discrete Math, Linear Algebra, Real Analysis, Probability

## EXPERIENCE

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**Rubrik**

Palo Alto, CA

*Software Engineer Intern - Infrastructure*

May - August 2021

- Designed and trained machine learning and statistical models to predict internal resource order flow
- Implemented a framework from scratch to easily integrate any prediction model into the order fulfillment pipeline
- Built a simulator to monitor performance - lowered order latency by 65% and cut resource carryover costs by 40%

**UT Department of Computer Science**

Austin, TX

*Undergraduate Researcher*

May 2020 - Present

- Researched and analyzed different reinforcement learning techniques for robotic dexterous manipulation tasks
- Implemented a novel "curiosity-based" algorithm for better generalization to unknown objects
- Created testing pipelines to gather metrics on new models - saw decreased training time and improved performance

**Integeos LLC**

Houston, TX

*Software Engineer Intern*

May 2018 - August 2019

- Wrote image processing algorithms to perform automatic identification of unique features within seismic images
- Designed discriminatory networks to identify seismic anomalies, saving 50+ man-hours and increasing accuracy
- Created a company webpage to display experimental results, increasing website traffic by 150%

## PROJECTS

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**AnimateMe** *Physical animation tool*

Typescript

- Implemented browser-based animation tool that allows for efficient object-skeleton manipulation and animation
- Researched and created physics engine to support cloth rendering, collision detection, light, gravity, and wind

**CoronOS** *Features for custom virtualized OS*

C/C++, assembly

- Designed and built process ID infrastructure for signals, thread pooling, and increased kernel security
- Implemented memory mapping and page tabling schemes for processors and to support context switched memory
- Allows for encrypted and concurrent file reads, writes, and access permissions through custom kernel system calls

**Webcrawler** *Web crawler and query engine*

Java

- Performs crawling and indexing heuristic to efficiently store information of connected networks of pages
- Utilizes parse-trees and data-organization techniques to interpret search queries and find relevant web pages
- Allows for dynamic queries with grammar and logic to increase search flexibility and comprehensiveness

## AWARDS AND ACTIVITIES

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**Turing Scholars Student Association** *Member*

August 2019 - Present

- Academic organization that hosts CS related talks, events, and research opportunities

**UT Programming Contest (UTPC)** *Member, Contestant*

September 2019 - Present

- Competitive programming organization that hosts monthly programming competitions and talks

**American Invitational Mathematical Examination** *6-time qualifier*

2014 - 2019

- Invitational math competition for top 5% of scorers on AMC 10/12

## LANGUAGES & SKILLS

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**Proficient**      Java, C/C++, Python

**Exposure**      Typescript, Haskell, Rust, SQL, Javascript, CSS, html, Pytorch, Docker, Django

## INTERESTS

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Ultimate Frisbee: Practiced with 15 person team three times a week; UT intramural semis (2019), finals (2020)

Baking: Maintained sourdough starter for 20+ months to bake bread weekly; experimented with pies and pastries

Running: Trained for and participated in 5k and 10k races (Grant-A-Starr, Foam-Glow, Houston Turkey Trot)