

# Ryan Kim

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## EDUCATION

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### University of Michigan

*Bachelor of Science in Engineering in Computer Science*

GPA: 3.9

Coursework: Operating Systems, Database Management Systems, Computer Security, Machine Learning

Awards: Tau Beta Pi First Year Student Award

Ann Arbor, MI

Aug. 2021 – May 2024

## WORK EXPERIENCE

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### Amazon

*Software Development Engineer Intern*

Sunnyvale, CA

June 2023 – Aug. 2023

- Developed and implemented an end-to-end feature, using full stack frameworks and AWS services, utilized by an average of 5,000 internal users daily, facilitating seamless data gathering, user metrics analysis, and visualization during the team's operational meetings
- Designed a data snapshot generation system, enabling users to request and access point-in-time representations of data, contributing to improved data analysis and historical insights
- Contributed to the achievement of a full continuous integration and continuous development (CI/CD) pipeline for the team's diagnostics tool
- Actively engaged in organization-level meetings, gaining valuable insights into the broader workings of the company, including software architecture and products utilized by customers

### University of Michigan - Database Management Systems (EECS484)

*Instructional Aide*

Ann Arbor, MI

Jan. 2023 – Present

- Facilitated weekly discussion sections, providing comprehensive explanations of database management concepts and offering individualized support to students, resulting in improved understanding and course performance
- Generated resources for course topics, ranging from intermediate SQL to intricate query optimizations

### Blue Cross Blue Shield of Michigan

*Software Engineer Intern*

Detroit, MI

May 2022 – Aug. 2022

- Utilized Spring Batch in the Spring framework to create a Java batch application to monitor member services
- Queried and manipulated member information hosted on BCBSM's hosted servers through SqlDBX and JDBC
- Conducted and documented thorough unit testing for new and updated applications, ensuring functionality, edge case coverage, performance, and scalability

## PROJECTS

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### Mini Hoop League Tracker | AWS EC2, MongoDB, React

May 2023

- Constructed a web application to track statistics for a mini hoop basketball league using NBA.com as inspiration
- Implemented capabilities for authenticated users to perform CRUD operations on matches and players

### Speed Typer v2 | MongoDB, Express, React, Node, Redux, JWT, TailwindCSS

June 2022

- Improved my original static Speed Typer project utilizing the MERN stack
- Developed REST API endpoints to integrate user authentication through JSON Web Tokens and user information storage/retrieval within MongoDB
- Facilitated a personalized user experience by providing user performance tracking and history
- <https://github.com/kimry02/SpeedTyperV2>

### Personal Website | React, TailwindCSS

Sep. 2021 – Present

- <https://www.ryanmkim.net/>

## SKILLS

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**Languages:** C++, JavaScript, Python, Java, HTML/CSS, MATLAB, SQL

**Developer Tools:** AWS EC2, Redshift, S3, React.js, Next.js, Express.js, TailwindCSS, Postman, Redux, Spring

**Database Tools:** MySQL, MongoDB, MongoDB Atlas, Mongoose, Sequelize, GraphQL, GraphCMS, SqlDBX, MS SQL

**Other Tools:** NPM, Node.js, Harvest SCM, Git, Bash, Ubuntu, Cygwin, VS Code, CLion, PyCharm