# **Hayden Kim**

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#### **EDUCATION**

## University of Illinois at Urbana-Champaign

December 2024 Graduation

Bachelor of Science in Mathematics & Computer Science

GPA: 3.86/4.00 (Dean's List Spring 2022, Fall 2022, Spring 2023. Spring 2024)

**Relevant Coursework**: Database Systems, Artificial Intelligence, System Programming, Numerical Analysis, Nonlinear Programming, Computer Architecture, Graph Theory

#### **SKILLS**

Languages/Frameworks: SQL, Java, Python, HTML, C++, Scala, Linux, Spring Boot, Spring Framework, Flask

Platforms/Technologies: Agile/Scrum, Apache Spark, Machine Learning, Azure, Google Cloud Platform, GitHub Actions, MongoDB

#### WORK EXPERIENCES

## **UnitedHealth Group/ Optum**

June 2023 – August 2023

Technology Development Program Intern

June 2024 - August 2024

- Implemented modern framework integration in legacy company application to assist in web framework migration
- Achieved significant improvement in application's security through web framework migration
- Assisted in developing algorithms for custom streaming data tools to reduce the complexity of streaming data for Optum developers
- Enforced **thorough testing and documentation methodologies** to increase efficiency during the project's testing phase and expedite the understanding of the project
- Utilized various machine learning algorithms and data processing methods for advisor application to increase application's
  optimization and simplify client experience
- Reduced monthly cost of merging company data through streaming by about 66%

## **PROJECTS**

#### My Job App Tracker

August 2024 - August 2024

Full-Stack Developer

- Designed full stack application that simplifies user experience for viewing job applications user applied to
- Utilized Postman to test MongoDB and Spring Boot backend API functionality used to store job application data
- Implemented React frontend to provide user access to appending and viewing job applications with backend API interaction

## League of Legends Metrics Viewer

January 2024 – May 2024

Full-Stack Developer

- Developed a **cloud-based database application** in a team of four that assists users to identify which League of Legends Champion to choose using data from the project's database as well as view previous match data
- Overhauled "dirty" data to ensure smooth data transfer from **Google Cloud Platform** to the application
- Conducted runtime analysis on advanced queries to pinpoint areas in queries that can be updated to reduce query runtime

## PrairieLearn++

August 2022 – December 2022

Full-Stack Developer

- Designed a web application for my college's online learning platform in a team of four that offers users an easier time in identifying assignment due dates
- Carried out HTML front-end UI to display available assignment due dates and alert users of upcoming deadlines
- Implemented Python-backed web service to better represent the insights from the scraped data

## LEADERSHIP & INVOLVEMENTS

## SASE (Society of Asian Scientists and Engineers)

September 2023 - Present

SASE Tech Intern/Outreach Chair/Executive Board

- Coordinated LeetCode and LinkedIn workshops to prepare undergraduates seeking tech-related careers
- Network with student organization representatives to establish future collaborations with other organizations
- Increased **member involvement** within organization by about 20%

#### University of Illinois at Urbana-Champaign

January 2023 – Present

Statistics 400 Course Assistant

- Assisted high level statistics course professor in hosting office hours to tutor students
- Led course discussion section of over 25 students, explaining core probability concepts and providing advice for assignments

## Illini Solar Car

September 2022 – May 2024

Strategy/Telemetry Member

- Perform simulations of solar car drives to devise the best racing strategy
- Connect with different Illini Solar Car sub teams to optimize accuracy of solar car race simulation
- Develop/update simulation program to improve solar car team's racing strategies and UI readability

## **AWARDS & CERTIFICATIONS**