Richie Dix

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EDUCATION

Knox College Galesburg IL: Expected June 2026

Bachelor of Arts, Computer Science, and Data Science GPA 3.92/4.00

Coursework: Computing Systems, Applied Data Structures, Software Testing, Statistics, Algorithms and Data StructuresArtificial Intelligence, Software Engineering, Data Mining and Statistical Comp, Mobile Software Development, Scalable Systems and Development Progress, Semantic and Declarative Technologies

Study Abroad: Aquincum Institute of Technology Budapest, Hungary   Fall 2024

TECHNICAL SKILLS

Programming Languages/Framework: Java, JavaScript, Python, Kotlin, C, R, Assembly, Prolog, Scala, SQL, XML, HTML

Tools: Visual Studio Code, Android Studio, IntelliJ, Canva, Miro, GitHub, Figma, Terminal, Mars, Jetpack Compose

RELEVANT EXPERIENCE

Student software engineering helper at Sony   December 2020 - April 2021

Programming workshop/competition held by Sony in Osaka Japan

- With the mentorship of a Sony software engineer, led a team of 4 to create a mood-changer program for a dog-like nursing robot called aibo which was invented by Sony.
- By using JavaScript and Rakuten weather API to get the weather forecast of the given geohash of the robot and linked the aibo's mood protocol with the forecast so that the aibo would have weather-dependent moods throughout the day.
- Presented our work to the chair of education at Sony and to other schools who were in the same program.

Application Idea Contest at Kwansei Gakuin University   January-March 2021

- Led a team of 3 to create an idea framework for a social media application where students can tutor online through COVID.
- Presented our work at a Zoom meeting with the department chair of computer science at Kwansei Gakuin University.

Local Search Engine Framework Development at AIT   August 2024 - October 2024

- Worked in a team of 5 developing a framework of a local search engine from the preprocessing using Hadoop map reduce, to the query using big table that would take in a bigram of a keyword and the coordinates to apply a query within the local database
- Designed how the data will be distributed and used a big table to read the information and created a query of $O(1)$ for the search engine.

PAST EXPERIENCES

Breakfast Management at Les Cheneaux Culinary School   May 2024 - August 2024

Les Cheneaux Culinary School Hessel MI.

- Managed a team of 6 during breakfast hours for the restaurant of the Les Cheneaux Culinary School.

Part-Time Employee at Nye Construction Co.   May - September 2022/23

Nye Co. Hessel MI

ADDITIONAL INFORMATION/SUMMARY

Languages: English (Native), Japanese (Native) - Attended elementary through high school in Kobe Japan.

Soft Skills: Growth mindset, High focus, Enthusiasm, Hard working, Decision making, Communication skills, Agile Programming, Software Development Life Cycle, Test Driven Development, Extreme Programming