Tim Kaltenbach

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EDUCATION

University of Washington, Seattle WA, USA   Sep 2021 - Jun 2025
Bachelor of Science in Computer Science, Bachelor of Arts in Business Management: 3.9/4
Relevant Coursework: Data Structures and Parallelism, Database Management, Artificial Intelligence, Foundations of Computing I-II, Introduction to Algorithms, Web Design and Development, App Design in IOS, Software Tools, Interaction Programming

TECHNICAL SKILLS

Programming Languages (Proficient): Swift, Java, Python, SQL   **Libraries/FrameWorks**: React
Programming Languages (Familiar): C++, JavaScript, HTML/CSS   **Tools:** Git Version Control, Tableau, Linux
Languages: German (Native), English (Native), Spanish (Bilingual Proficiency)

EXPERIENCE

Founding Software Engineer
Intersect Inc.   Oct 2022 – Current
- One of three members on the engineering team, developed their iOS mobile application and added functionality for data collection and manipulation from Apple HealthKit, as well as backend storage and data access through Google Firebase.
- Created a matching watchOS app for users to control and interact with the mobile app.
- Technologies: Swift, NoSQL

Software Engineer Intern
Ayesafe Inc.   May – Aug 2022
- Implemented new features based on UI/UX designs and polishing existing ones for the alpha version of their IOS app
- Developed the API used to retrieve patient information and helped design the Data Pipeline for their Machine-Learning Algorithm
- Technologies: Swift, Java, NoSQL

Coding Lead
UW Dubvelopers   Dec 2021- August 2022
- Managed and assisted a team of 10 computer science students while creating websites for on-campus organizations
- Held meetings to teach JavaScript and React, and made presentations to display progress to club executives
- Technologies: JavaScript, React, Figma

Back-end Engineering Virtual Experience
Lyft, Inc.   Feb - March 2022
- Completed a program by Lyft to gain experience with back-end development while learning Software Architecture, Refactoring, Unit Testing and Test-Driven Development
- Worked on implementing Vehicle and Engine classes in Python to make testing and checking the status of cars easier

CERTIFICATIONS

Google Data Analytics Professional Certification   Nov 2022 - Jan 2023
- Learned how to visualize and present data findings on dashboards and presentations
- Practiced key analytical skills (data cleaning, analysis, & visualization) and tools (spreadsheets, SQL, R programming, Tableau)
- Understand how to clean and organize data for analysis, and complete analysis and calculations

Deep Learning Specialization (DeepLearning.AI)   Aug - Nov 2021
- Completed a 3-month program for building and training neural networks, as well as utilizing strategies to improve them.
- Used Python to tackle cases like speech recognition, music synthesis and natural language processing.
- Studied the capabilities and consequences of deep learning.

RELEVANT PROJECTS

Backgammon Agent   Oct 2022
- Created a Backgammon Agent that uses state-space search and Minimax/Alpha-Beta Pruning to choose ideal moves, as well as store current game states.
- Implemented a heuristic function to identify beneficial states and avoid losing scenarios

Vaccine Scheduler   Jun 2022
- Developed an appointment scheduling application that connects to an Azure Database
- Allows Patients and Caretakers to use the command line interface to search, schedule, cancel, etc. appointments

iOS Apps   Jan 2022
- Using Swift in XCode, created several Applications, including a time management program that allows users to input tasks and organize them by due date, as well as a personality quiz that categorizes your personality based on a survey about your interests