SOMIN PARK

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EDUCATION

Washington University in St. Louis, St. Louis, MO **August 2022 - May 2024**
McKelvey Engineering: Computer Science Major (Dean's List)
Honors: Summa Cum Laude, Tau Beta Pi
Relevant Coursework: AI for Health, Data Mining, Rapid Prototype Development, Intro to HCI, Computer Engineering

University of Pennsylvania, Philadelphia, PA **August 2021 - May 2022**
Special Program: International Guest Student Program (non-degree program)
Relevant Coursework: Programming Languages and Techniques, Statistics

Konkuk University, Seoul, Korea **March 2020 – July 2021**
Konkuk Institute of Science and Technology: Systems Biotechnology Major
Relevant Coursework: Introduction to Systems Biotechnology, Biostatistics, Problem Solving Through Programming

TECHNICAL SKILLS

Software: Java, Python, Tensorflow, TypeScript, Next.js, JavaScript, React, Node.js, d3.js, Swift, R, HTML, CSS, PHP, AWS, MongoDB, Firebase, Express.js, jQuery, C++, SQL, Google Cloud Storage, Google Analytics, Figma, Linux, Git, Arduino

RELEVANT EXPERIENCE

Research Assistant, Washington University in St. Louis **August 2023 – May 2024**
Under the guidance of Professor Caitlin Kelleher

- Designed and developed a Visual Studio extension to enhance developers' ability to trace code histories, interactions, and changes.
- Implemented visualization features to visualize code changes, branching, and collaboration history directly within the IDE.
- Developed test scenarios and user personas and supported the user testing process by observing sessions and providing feedback to improve the interface's usability and functionality.

Project - ICP Predictive ML Model **February 2024 - Present**
Description: Developed a non-invasive machine learning model to predict intracranial pressure (ICP) utilizing waveform data from the MIMIC-III clinical database.

- Preprocessed large-scale clinical datasets and conducted feature extraction and engineering.
- Developed predictive algorithms to improve patient diagnosis and treatment monitoring.

Project - BeThere (iOS App Development) **August 2023 - November 2023**
Description: A mobile app aimed at tackling tardiness and promoting punctuality in gatherings and meetings

- Integrated a database system to store and manage event-related data, allowing for efficient retrieval, modification, and presentation of event details on the user interface
- Implemented GPS and real-time tracking features to ensure on-time arrivals

INTERNSHIP AND LEADERSHIP

EDUrain, St.Louis, MO, United States (remote) **May 2023 - August 2023**
Software Engineer Intern and Tech Lead

- Managed code review process and pull requests, ensuring code quality and adherence to best practices.
- Deployed websites and oversaw the website deployment process to production environments.
- Assisted and mentored other interns in debugging issues and providing technical guidance.
- Implemented Google Tag Manager, Hotjar, and Google Analytics to track website usage and gather valuable insights.
- Developed Frontend and Backend for multiple redesigned websites based on Figma files, utilizing TypeScript, React, Next.js, and CSS to create responsive and user-friendly web interfaces.

Kang-Yell Choi Lab, Yonsei University **April 2021 - August 2021**
Research and Development Intern

- Tested drug efficacy using hair neogenesis and wound closing of mice models through in vivo research.
- Investigated drug efficacy of primary cell culture and cell line using invasion assay, migration assay, colonization assay, MTT assay and ELISA through in vitro research.
- Analyzed data from the results using data recording and analyzing software, image reading software, multiplate reader software, and data acquisition software.

Teaching Assistant, Washington University in St. Louis **January 2023 – present**
Course: Data Structures and Algorithms, Object Oriented Programming, Intro to Data Science, Introduction to Computer Engineering

- Provided essential support and feedback for students to understand the course material and held scheduled office hours to assist students.