Samuel Sunghun Lee

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Education

University of California at Berkeley
B.A in Computer Science and Mathematics
GPA : 3.8 | **Class of 2021** | 8/17 - 5/21

Work Experience

Software Engineering Intern - Amazon. Seattle, WA 5/20 - 8/20
• Alexa AI Deep Learning Platform Team - Delivering Alexa wide impact on AI model building and deployment with algorithmic and system innovations, using cloud services and other Amazon tools.

Research Intern - Accenture Labs. San Francisco, CA 5/19 - 8/19
• Predicted failure of manual water pumps in Africa within 30 days of true failure
• Developed a python package for general-purpose predictive maintenance using Hidden Markov Models
• Generate optimized schedule using POMDPs for technicians to repair the pumps
• Establish backend using RESTful APIs to expose ML models and set up Docker and databases

Undergraduate Research Assistant - Berkeley Artificial Intelligence Research. Berkeley, CA 10/19
• Under professor Dawn Song. About robustness of models with datasets of images in adverse conditions, it is a joint research project with Google Brain

Software Engineering and Operations Intern - New Millennium Bank. Fort Lee, NJ 5/18 - 7/18
• Slashed downtime by 50% automating insurance procedures with script in python to query emails and documents.

Awards

Competitive Programming / Math Olympiad / Chess
7th place in North America CodeVita 2019 / Top 400 North America ICPC Qualifier / Bronze Medal - Korean Math Science Olympiad / Bronze Medal - Joe Holbrook Chess (1600) / Best Mobile App Award - HACKBCA III

Passion Projects

Cryptobreaker
• Automatic encryption and decryption algorithms such as caesar, vigenere, and one-time pad generation. Using solutions in Java and Python, I created various tools and algorithms to automate the entire development of cryptographic messages.

Hikehero Mobile App
• Launched a mobile app to save the lives of hikers around the world. Using software in Android Studio.
• App sends notification of emergency situations to nearby police stations sending the location of the injury.

Verspiration
• Launched a Chrome extension that supplies a daily bible verse and a beautiful aesthetic background upon opening a new tab. Code in HTML, CSS, and Javascript.

Chess AI
• An AI that plays like me. Used min-max alpha-beta pruning algorithm with heuristics in javascript.

Skills - **Java / C++ / Python / C / SQL / Javascript / React / Express / Golang / Algorithms / Data Structures / Node / HTML / CSS / Web Applications / AWS / Product Development / Networking / Software Development Lifecycle / UI / Automation / Software Design / Mobile apps / Programming skills / Developer Tools / Technical skills**