Yangsun (Abe) Park

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Skills

Programming Skills: Python, JavaScript, React, React Native, C++, C, MATLAB

Technical Skills: Firebase, MongoDB, Flask, PostgreSQL, PyTorch, NumPy, scikit-learn, Matplotlib, Docker

Education

Tufts University Medford, MA

Bachelor of Science in Computer Science and Mathematics *December 2022*

Relevant Coursework: Algorithms, Machine Structure & Assembly Language (C), Machine Learning (Python), Data Structures (C++), Web Programming (JavaScript), Data Infrastructure (XCode), Programming Languages, Computation Theory, Calculus III, Real Analysis

Experience

Beat Bridge Somerville, MA

Co-founder and Chief Technology Officer *May '22 – Present*

- Developed a web networking platform that assists musicians from production to distribution of their work.
- Designed and implemented the entire front-end and back-end service.
- **Technologies: React, Firebase**

Tufts JumboCode Medford, MA

Technical Lead *Sept '21 – May '22*

- Developed a transportation network web application for the *Petey Greene Program*.
- Implemented authentication endpoints to enable secure login for the clients.
- **Technologies: Next.js, MongoDB, TypeScript**

Software Developer *Sept '20 – May '21*

- Developed a student management mobile application for a nonprofit enterprise, *More Than Words*.
- Designed the entire user interface and implemented transition animations and all styling responsibilities.
- **Technologies: React Native, Expo**

GIST Computer Vision Laboratory Gwangju, Korea

Research Assistant (Professor Jonghyun Choi) *Jan '21 – June '21*

- Developed experiment codes for network knowledge distribution to attack memory efficiency problems in mobile devices.
- Reduced the model network's parameter size from 133,150,840 to 8,573,120 (0.06%) while improving the test performance in classifying the CIFAR-10 dataset to 94.23%.
- **Technologies: PyTorch, Docker**

Projects

Chrome Divider *May '22 – June '22*

- Developed a Chrome extension that enables display of multiple pages in one window.
- **Technologies: JavaScript, Google Chrome APIs**

Movies-BTI *Apr '21 – May '21*

- Developed a movie recommendation web application based on dynamically collected user inputs..
- **Technologies: JavaScript, php, MySQL, HTML, CSS**

Reed-Frost Epidemic Simulator *Apr '20 – May '20*

- Implemented a MATLAB program to analyze the spread of an epidemic and the effect of the contact rate using the Reed-Frost model for calculation.