HAN YOU

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Education

Yale University *New Haven, CT, USA*
M.S. in Computer Science, expected May 2019. *Aug 2018 - May 2019*
- Courses: Operating System, Database, Computer Music

City University of Hong Kong *Hong Kong, China*
B.S. in Computer Science, GPA: 3.82/4.3, Rank 2nd/84 *Aug 2014 - Jul 2018*
- Core Courses: Computer Network, Cloud Computing, Data Structure, Linear Algebra, Algorithm
- HKSAR Government Scholarship (top 2% in university)

Skills

- **Programming Languages:** JavaScript, C/C++, Java, Python, C#
- **Technologies:** React.js, Swing, Three.js, Node.js, .NET, WebGL, MySQL
- **Tools:** Git/SVN, Latex, Android Studio, Linux, Mac OS
- **Languages:** Full proficiency in English, Mandarin, Cantonese

Internship Experiences

MoonX.AI *Shenzhen, China*
Software Engineer - Intern *Jun - Aug 2018*
- Served as a member of Map team, developing HD Map and Semantic Map for the self-driving system.
- Developed a 3D interactive web application for simulating complicated traffic scenarios using React.js and Three.js. The application is semi-automatic, improving the map labelling speed by two times.
- Implemented the server logic in C++ and optimized storage with protocol buffers.
- Designed testing procedures and wrote test cases in server end using Bazel.

Hong Kong Exchange and Clearing Limited *Hong Kong, China*
Software Engineer - Intern *Aug 2016 - Jun 2017*
- Developed company website using .Net according to requests from customers and other departments.
- Built the backend database system using Microsoft SQL Server and wrote Stored Procedures.
- Investigated existing features in website and made refinements to improve user-experience.

Selected Projects

Micro Certified OS Kernel *Yale University*
Operating System Term Project *Aug 2018 - Present*
- Built an OS kernel in C and made it able to run on a multi-core processor.
- Implemented the key functions of the kernel, including physical memory management, virtual memory management, process management, trap handling and so on. Debugged it using GNU Debugger.

Improving the Accuracy of a Web Camera Eye Tracker *Hong Kong, China*
Undergraduate Final Year Thesis *Feb 2017 - April 2018*
- Synchronized a web camera eye tracker and a high quality eye tracker (Tobii T60) to collect data.
- Combined Kalman Smoother and CNN to build a time-series regression model in Caffe.
- Utilized Saliency Map to further improve the model and supported real-time eye tracking.
- The accuracy of the web camera eye tracker is improved by ~10% using this model.

System Process Performance Monitoring Package *NetX Lab, HK, China*
Undergraduate Research Project *May - Sep 2017*
- Developed a system process performance monitoring package for Spark with Python and Java.
- Enabled monitoring the network IO, disk IO and CPU used by certain processes in real time.

Workflow Scheduling Interface *Knoxville, TN, USA*
Project for REU at Oak Ridge National Laboratory *May. 2016 - Aug. 2016*
- Developed a GUI using Java Swing to invoke user-specified biophysics simulations in remote clusters.
- Extended the GUI to support retrieving output files back from clusters and visualized them for analysis.
- Integrated the interface with an existing workflow engine openDIEL to facilitate the simulation.