Cloud Software Engineer Cloud Software Engineer Cloud Software Engineer - Schlumberger Houston, TX Work Experience Cloud Software Engineer Schlumberger - Houston, TX February 2019 to Present Drilling Simulation and Analysis Website Developed a website that can visualize geographical statistics, perform drilling simulation based on user-defined material/process setting and help petroleum engineer cooperate online & design better drilling plan to increase oil production. Generated world stress map, basin map in UI using Angular. Visualized these geographical data to help engineer with drilling analysis. Enabled user to duplicate process design in UI and made it convenient to add similar process to simulation. Enhanced user experience. Implemented algorithm in backend to filter and clean up datastore. Improved loading speed in backend and saved datastore cost. Designed and implemented datastore backup/restore solution with GCP cloud function, Node.js, cloud scheduler and nearline storage. Provided automatic backup and automated test. Enhanced data security and made application more robust. Created release pipeline in Azure to deploy backup program to GCP automatically. Improved development efficiency by 10%. Full Stack Web Developer Intern IT Department of Rice University - Houston, TX May 2018 to August 2018 CRUD Website Source Code Generator Built a code generator acting similar to a compiler. It parses an XML file, which is produced by Jeddict using visualizing tool and ER Diagram, then generates all source code a single page CRUD website needed in less than 5 seconds to boost up web development. Designed the generated website with frontend built with Oracle JET and backend built with Spring Boot, Gradle and H2. Added content recommendation and fuzz search in console by adopting Yeoman. Improved user experience. Deployed it to Github as an npm module with gulp. Simplified installation complexity with just one 'npm install' command. Research Assistant & Software Developer South China University of Technology - CN May 2015 to October 2016 Quadcopter Navigation System Navigated quadcopter using Convolutional Neural Network and Depth Map, which is obtained by PTAM and DTAM algorithm based on monocular vision. A paper was published based on this. Implemented navigation algorithm with C++ & Python and experimented on Ubuntu14.04. Adopted OpenCV to process images and produce training set. Used CUDA and Caffe to train Convolutional Neural Network. Led a team of five.

Organized regular meeting, assigned tasks and reported progress to advisor. Education Master of Computer Science in Computer Science Rice University - Houston, TX August 2017 to December 2018 B.Eng. in Computer Science in Computer Science South China University of Technology - Guangzhou, CN September 2013 to July 2017 Skills C#, C++, Docker, Git, Gradle, Hadoop, Html, Javascript, Node.js, Typescript, Php, Python, Opencv, Tensorflow, Svn, Java, Hibernate, Spring, Mysql, Oracle, Azure, AWS, Linux, Powershell, Devops Links http://www.linkedin.com/in/weiheng-qiu Additional Information SKILLS Frontend Framework: Angular, Oracle JET, Knockout.js. Backend Framework: Node.js, Express, Spring Boot, Hibernate. Program Language: Java, JavaScript, TypeScript, HTML, CSS, Python, C++, SQL, MATLAB, OpenCV, C#, PHP. Tool & Other Framework: Git, SVN, Docker, GCP, Azure, AWS, Gradle, MySQL, Hadoop, Spark, TensorFlow, Caffe.

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