

Zhuoran Yu

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EDUCATION

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| Georgia Institute of Technology, College of Computing | Aug. 2016 – Dec. 2018 (expected) |
| <ul style="list-style-type: none">M.S in Computational Science and Engineering (GPA: 3.84 / 4.0) | |
| Peking University, College of Engineering | Sept. 2012 – June 2016 |
| <ul style="list-style-type: none">B.E in Energy Resources Engineering (Rank 4 / 19, GPA: 3.55 / 4.0) | |

WORK EXPERIENCE

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| Electronic Arts Inc. | May 2018 – Aug. 2018 |
| Software Engineer Intern | Austin, TX |
| <ul style="list-style-type: none">Worked in the EADP Data & AI team to build a web-based application to expedite data ETL development timeline by enhancing engineer productivity on Hadoop Oozie job files generation.Developed a web for users to browse business logic data and create data transformation job files with inputs and selectors in a more efficient way to save time from manually typing in Text Editor. (Angular 6)Built a resource server with RESTful APIs to provide business data query and generate job files by parsing SQL source code and configuration from JSON with Java template engine. (Spring Boot, FreeMarker)Designed job file data structure and built a database for CRUD operation with JPA. (Hibernate, MySQL)Saved 80% ETL development time and reduced 100% semantic error in SQL source code. | |
| XtalPi Inc. | Jun. 2017 – Aug. 2017 |
| Machine Learning Engineer Intern | Beijing, China |
| Xtalpi is a pharmaceutical technology company to provide cloud-based computational service for drug Industry. | |
| <ul style="list-style-type: none">Worked in the algorithms group to develop machine learning algorithms to predict molecule properties.Implemented matrix based and bag-of-words based model to extract features for data pre-processing.Developed machine learning algorithms of Kernel Ridge Regression, Random Forest, ElasticNet and Bayesian Regression to predict properties based on experiment data. (NumPy, SciPy, scikit-learn)Achieved algorithms with less running time of DFT method while maintaining similar prediction accuracy. | |

PROJECTS

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| Mobile Chat App | Jul. 2018 – Oct. 2018 |
| <ul style="list-style-type: none">Built a fully functional iOS chat app for users to communicate with friends. (Swift, Firebase)Provided individual and group chats, also supported auth login, multimedia messages and notification.Implemented NoSQL database (Cloud Firestore) to store chat and user information data. | |
| IoT Mobile App for Plants Lover (Intro: http://plantism.herokuapp.com/index.html) | Jan. 2018 – May 2018 |
| <ul style="list-style-type: none">Designed and developed a smart plant pot with mobile app to provide wireless sensor remote monitoring and professional care instruction to help people take care of their plants in a group of six.Built an Arduino sensor module to continuously collect soil temperature and humidity information, then parsed and uploaded real-time data in JSON to app server through WIFI module. (Firebase)Developed an Android app to bind sensors and fetch monitoring data asynchronously and provided trend visualization, plant care tips with interactive UI to improve user experience. (Android Studio, XML)Implemented relational/NoSQL database (SQLite/Realtime Database) to store user data and plants wiki. | |
| MapReduce Distributed System Infrastructure | Sept. 2017 – Dec. 2017 |
| <ul style="list-style-type: none">Designed and Implemented a simplified version of MapReduce infrastructure for local machine. (C++)Implemented master process with dispatch algorithms to maintain the intermediate file information in local disk and manage worker server to execute map/reduce tasks by remote procedure call. (gRPC) | |

SKILLS & COURSES

Programming Languages: Java, Python, C/C++, Typescript, JavaScript, HTML5/CSS, MySQL, Swift
Tools & Frameworks: Junit, git, Jira, maven, d3.js, Spring Boot, AngularJS/Angular, gRPC, Firebase
Selected Courses: Computational Algorithms, Advanced Operating Systems, Intro to Java Programming, Computer Networks, Database Systems, Machine Learning, Artificial Intelligence, Mobile Apps and Services