YILIN GUO

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EDUCATION

University of Michigan   Sept 2015 - Apr 2017
B.S.E. in Computer Science Engineering   *Ann Arbor, Michigan*

· Courses taken/taking: data structures and algorithms, database, operating systems, networking, mobile application development

Shanghai Jiao Tong University   Sept 2013 - Aug 2017
B.S.E. in Electrical and Computer Engineering   *Shanghai, China*

· Courses taken: linear algebra, probability and statistics

WORK EXPERIENCE

Software Development Engineer   Sept 2017 -
Amazon Web Service   *Seattle*

· Member of Elastic Block Store (EBS) team providing block-level storage for Elastic Compute Cloud (EC2) instances
· Design and implement algorithms on how to spread partitions across servers for optimal performance
· Thin provisioning (oversell capacity) for better profit

PROJECTS

Mobile Sakai Android App   May 2014 - July 2014

· Designed for students to browse resources, query assignments, and exam grades
· Requested the Sakai 10 API for due time, appointment time, etc.
· Implemented reminder function to alert due time

ER-Reader Prototype   Sept 2015 - Nov 2015

· Able to select books from the library, turn pages with page number displayed
· Graphical user interface implemented with Java *swing*
· Search function and database back end to be implemented

Cross-4 Chess Game   Sept 2016 - Nov 2016

· Let two players play by turns in separate windows until one player wins by getting four pieces consecutively in a row
· Socket programming with one server and two clients
· Graphical user interface implemented with Java *swing*

TECHNICAL STRENGTHS

Fields of Interest	back-end development, iOS development, Android development
Computer Languages	C++(proficient), Java(proficient), Objective-C(proficient), C(prior experience), Python(prior experience)
Other Languages	SQL, HTML, CSS
Tools	Git, Vim, GDB, Valgrind