Eric Riddoch

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ericriddoch.info – Portfolio

EDUCATION

BS, ACME (Applied Computational Mathematics Emphasis)   April 2020
Brigham Young University, Provo, Utah
➢ Current GPA: 3.94, *112.5 credit hours*
➢ Relevant Coursework: *Data Structures, Competitive Coding, Computer Systems, Android Development, Web Development, Linear and Non-Linear Analysis, Algorithm Analysis and Optimization, Convex Optimization, Fourier Transform*

SKILLS

➢ Signal processing, algorithm analysis, data visualization, and machine learning techniques
➢ Core Technologies: Python, Java, JavaScript, C++, SQLite
➢ Familiar with AngularJS, C, x86 Assembly, Git, Bash, Latex, JSON, GSON, and unit testing

EXPERIENCE

Full Stack Developer   December 2018—Present
InnovAsia, Provo, Utah
➢ Work closely with strategy team to identify and implement software solutions that eliminate bottlenecks in 2 million parts per month global supply chain
➢ Develop and maintain application for systems administration of U.S. and Chinese accounts (Python, bash)

Research Assistant   November 2017 – May 2018
Department of Computer Science, Brigham Young University
➢ Rewrote skeleton of old lab website in AngularJS using web components to replace existing site

CS Teaching Assistant   August 2017 – December 2017
Department of Computer Science, Brigham Young University
➢ Taught 150+ students C++ and programming concepts to improve performance in their classes
➢ Helped students debug and test their code, and then led them to solve problems independently

Full-time Missionary   August 2015 – August 2017
The Church of Jesus Christ of Latter-day Saints, Samara, Russia
➢ Created an internal support program in 3 cities—training Russian church members to visit, teach, and care for each other
➢ Led training meetings with 21 volunteers to adjust to a major legal policy change

Research Project   February 2015
Department of Computer Science, Brigham Young University
➢ Programmed an Arduino board in C++ to control colored LED lights meant to be used in computer vision research

PROJECTS/INTERESTS

➢ [Facial recognition algorithm](#) that uses eigenfaces to compute numerical distance from a face in a dataset
➢ [Implementation/demonstration](#) of the Fast Fourier Transform and its applications in sound filtering
➢ Programmable webdriver that makes web-scraping and task automation accessible to small businesses
➢ Placed 18th out of 132 teams at statewide ACM Coding Competition in 2018
➢ Certificate of Russian Competency - created a 40+ part [video series](#) to teach complex linguistics concepts