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JOSH PARKER

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EDUCATION

| **Software Engineering Major** | **Utah Valley University** | **Expected Graduation Spring 2020** |

GPA 3.57. Selected Coursework:
- Data Structures and Algorithms. Spring 2018. Lists, trees, graphs, sorting, parsing, C++, Visual Studio. A.
- Computer Organization and Architecture. Spring 2018. Binary encoding, assembly language, addressing. A.
- Analysis of Algorithms. Fall 2018. Divide and conquer, dynamic programming, backtracking, complexity. A.
- Database Theory. Fall 2018. Relational database design, relational algebra, set theory, SQLite, Python. A-.

| **Web Development Student** | **DevMountain** | **Graduated March 9, 2019** |

- Main topics: HTML, CSS, JavaScript, React, Node.js, Express, PostgreSQL, Git, VS Code, immutability, DRY.
- Group Project–Scheduler App/Monday.com clone. 12 tables. 79 endpoints. 115 joins. 663 test cases. Content is shown only to approved team members; only content owners and team managers can update or modify content. All user content is deleted on account deletion. Options to message users in public comments or private direct messages, mark messages read or liked, follow other users. *monday.joshquizzes.com*
- Personal Project–Quiz App. Socket IO multiplayer functionality. jQuery web scraping. Trello progress tracking. Node.js HTTPS server. Digital Ocean hosting. PostgreSQL on Digital Ocean droplet keeps load times low. Massive integrates SQL into Express server. Over 9000 quiz questions generated. *quiz.joshquizzes.com*
- Small Project–Calendar. Introductory project using React and Node.js. Data saved to JSON file using Node.js file system (fs). Express used to run server. React for front end. *calendar.joshquizzes.com*

| **Biology Major** | **Utah Valley University** | **Spring 2017** |

- Human Anatomy TA. 8 semesters. 1 semester advanced anatomy mentor. Grading, instruction, discipline.
- Dean's List 5 semesters. Received Bachelor's of Science. GRE Verbal: 170. Quantitative: 162 Writing: 5.5

EMPLOYMENT

| **Tutor** | **A Plus Tutoring** | **Fall 2016 - Present** |

- Topics include nursing, pharmacy, organic chemistry, biology, genetics, anatomy, physiology.

| **Shipper** | **Sportsman's Warehouse** | **Spring 2017 - Spring 2018** |

- Forklift driver, palette builder, emphasis on guns and ammunition. Three time employee of the month.

| **Mentor** | **UVU Prep** | **Summer 2018** |

- Pre-engineering summer camp. Assisted with course work: statistics, technical writing, computer science.

TECHNICAL EXPERIENCE

Projects

- **Python game tutorial** Instructions for kids to get started creating games with Python. Compared and contrasted MIT Scratch blocks and Python code. Explained batching, decorators, objects. *si.joshquizzes.com*
- **FFT Audio Compression** Implemented Cooley-Tukey divide and conquer algorithm using JavaScript, lossy audio compression using Numpy, compared implementations using batch scripting. *fft.joshquizzes.com*
- **Qt machine language interface** Graphical interface for interpreter demonstrating simple machine language using C++ with Qt. Simulated computer with 100-address memory. Opcodes for arithmetic, IO, memory access and conditional logic. *uvsim.joshquizzes.com*

LANGUAGES AND TECHNOLOGIES

- C++; C#.NET; SQL; JavaScript; Python; R; MATLAB; HTML; CSS; Ruby;
- Visual Studio; VS Code; PostgreSQL; Digital Ocean; Heroku; Node.js; React; Ruby on Rails; Windows Forms;