Joseph Zoland

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TECHNICAL SKILLS

- **Proficient:** JavaScript, AngularJS, Node.js, Express, Express-session, Python, Django, Flask, Swift, MongoDB, SQLite, HTML5, CSS3, jQuery, jQuery Validator, Socket.IO, Git, SPSS, Agile Development
- **Exposure:** ReactJS, MySQL, AWS, Core Motion, Core Data, SpriteKit, Pandas, NumPy, Unity, C#, Java, Ruby

WORK EXPERIENCE

Valley Medical Center Foundation | Software Engineer | San Jose, CA   Aug 2017 - Current
- Reengineered backend and frontend features using JavaScript, Node.js, Express, EJS, MongoDB, and jQuery, increasing allowed concurrent amount of annual auction data by 1100%.
- Implemented websockets for real-time updates using JavaScript, Node.js, Express.js, MongoDB and Socket.IO, reducing processing load by over 5000%.
- Enabled editing admin privileges of users using JavaScript, AJAX, Node.js and MongoDB, allowing for 500% monitoring power over each auction.
- Recruited new developers by delivering 3 presentations, writing 175-line read me, and utilizing self-designed candidate-selection process, resulting in recruitment of 6 engineers within 2 months.
- Acted as interim Scrum master using Agile to guide adherence to Scrum best practices during standups and quelling tensions during group development sessions, attaining 100% satisfaction from team members.
- Migrated product from ReactJS to EJS utilizing AJAX, HTTP Request/Response, Node.js MongoDB, Socket.IO, and Express-session, resulting in over 10X faster development speed.
- Created login and registration functionality for 500+ bidders via JavaScript, Node.js, Express.js, and Bcrypt.

Socratic Technologies | Research Associate / Project Director | San Francisco, CA   Mar 2015 - Dec 2016
- Spearheaded company's movement from Statistical Package for Social Sciences (SPSS) to Python Pandas library, teaching 3 teammates, saving company $30,000+ in annual SPSS licensing fees.
- Automated SPSS syntax generation for data analysis using Python, minimizing time costs by roughly 2/3.
- Automated elements of survey translation checks using MS Excel functions, reducing write-up times by 50%.
- Achieved promotional advancement from Research Associate to Project Director by coordinating internal operations and data reporting for 10+ projects using SPSS, Python, and Pandas.
- Managed high-profile survey for 2 months as the Lead Research Associate, using Excel to manage the 300+ item change log and SPSS to write 2200+ lines of syntax, for $1+ million dollar contract.

EDUCATION

M.A. Psychology, *San Jose State University*   Dec 2013
- MA Thesis: "Attention Restoration Theory in Gaming as it Pertains to Subsequent Academic Learning".
- Relevant Coursework: Multivariate Statistics, Psychometrics, and Advanced Statistics.

B.A. Psychology w/ Philosophy Minor, *San Jose State University*   May 2011

PROJECT WORK

Red Dude | Software Engineer | demo   Aug 2017
Mario Bros inspired platformer where players jump across randomly-generated obstacles before they trip.
- Implemented jumping, gravity, and random platform generation in pure JavaScript; created 6 textures using Piskel representing 3 platform types, both protagonist views, and background.

Tetris Natures | iOS Software Engineer | demo   Mar 2017
Bejeweled-like mobile iOS game where players can make matches to remove blocks on their screen.
- Designed algorithm in Swift to check for matching blocks on horizontal or vertical planes, and then checks other plane to see if there are additional matches (e.g., L shape match).
- Used SpriteKit to simulate gravity and implemented touch functionality for block tracking on switches.

AWARDS

Hackathon 2nd Place, *Coding Dojo*   2017