JONATHAN WILSON

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Education	**Rice University** - B.A. Computer Science, May 2015 Degree Minor: Computational Mathematics GPA: 3.49 – Dean's List 3 Semesters

Skills

Relevant Skills to Software Engineering Position
- Experienced with MVC web framework (Django)
- Proficient with web technologies e.g. JavaScript, jQuery, & REST
- Strong understanding of data structures and algorithms
- Experienced with Git version control for collaboration

Work

Gimmal, Software Engineer
- Leveraged SharePoint to build pages of enterprise intranet site
- Wrote JavaScript to optimize application performance
- Utilized the SharePoint client side API

Freescale Semiconductor, Software Intern
- Developed indicator system for photolithography machines
- Implemented in AutoIT

MD Anderson Proton Therapy Center, Research Intern
- Wrote code to evaluate molecular dynamics algorithm
- Implemented in MATLAB

Projects

Rice Bikes, Business Management Web App
- Built Django app for small business serving 100s of customers
- Optimized work flow and enhanced financial analysis
- Created mobile friendly design with Twitter Bootstrap

Excel-A-Grade, Exam Grading Web App
- Produces formatted exam PDFs
- Enables instructor to assign problems to graders
- Written in HTML5, JavaScript at Civitas Learning Space 2015 Hackathon in Austin, TX

Musical-Instrument-Identifying Neural Network
- Classifies solo instrument samples w/ backpropagation network
- >85% accuracy achieved with MATLAB implementation

HTM Neural Network
- Performs anomaly detection based on Numenta whitepaper
- Used Matlab to implement on-line learning algorithm

Further Skills

Technical Software: CadSoft EAGLE, Autodesk Inventor
Hardware: MSP430 microcontroller
Foreign Language: Mandarin Chinese (conversant)
Leadership Experience: Lead university bike team for 3 years