

JONATHAN WILSON

2368A Rice Blvd, PO 276, Houston TX 77005

(832) 278-7123

jdwl72@gmail.com

<https://github.com/ShermanMorrison>

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

- Proficient with web technologies e.g. JavaScript, jQuery, & REST
- Good understanding of data structures and algorithms
- Experienced in Python development with MVC design pattern
- Experienced with Git version control for code collaboration

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

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, Intern

- Wrote AutoIt script to control indicator system for photolithography machine
- Oversaw the installment of the indicator system in the fab

MD Anderson Proton Therapy Center, Intern

- Wrote code to evaluate molecular dynamics algorithm
- Implemented in MATLAB

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