

Zachary Wachtel

7 Victorian Lane, Brookville, NY 11545
zwachtel@wisc.edu
(516) 287 7393

Objective: Currently seeking a fulltime position in the software engineering field where my strong analytical and problem solving skills will be utilized.

Educational Background

University of Wisconsin-Madison

B.S. Computer Engineering, Dec 2017

B.S. Computer Science, Dec 2017

- Minor in Mathematics
- Deans Honor List (3 Semesters)

Academic Design Projects:

Micro-Controller Final Project

Soldered components onto a microcontroller subsystem and programmed the system with firmware, written in C, utilizing a finite state machine with external interrupts.

Related Coursework:

Introduction to Data Structures (CS367), Digital System Fundamentals (CS352), Signals, Information, and Computation (ECE203), Machine Organization and Programming (ECE/CS354), Introduction to Algorithms (CS 577), Introduction to Operating Systems (CS 537)

Engineering Experience

Software Engineering Intern, May 2017- August 2017

Qualcomm, San Diego

Technical Intern, May 2016 – August 2016

Keen Home, New York City

- Lead role in testing and verification for IOT products
- Developed and deployed a Node.js command line tool which queried data from a NO-SQL database (elasticsearch) to run various CRUD operations.
- Developed a .NET application incorporating scanner SDKs and printer SDKs to allow for the company warehouse to easily print updated labels onto packaging.
- Active understanding of the company's full technology stack

Technical Intern, May 2014 - August 2014

SJ Associates, Jericho, NY

- Provided Technical assistance to employees
- Implemented and established a Barracuda SSL VPN network for forty employees
- Updated company's internal synching algorithm to become five times as efficient. (C#)

Independent Projects & Computer proficiencies

Applications: Java, MATLAB, C, Linux OS, Intel x86 Assembly Code, ARM Assembly Code, PowerShell, Windows, Word, Excel, PowerPoint, HTML, CSS, Access, Android Platform, SQLite, Node.js, javascript, Objective-C, Xcode

Projects:

Raspberry Pi Smart Home

Security camera: PIR sensor detects movement, Pi camera captures video, uploads to AWS s3 bucket, node script detects post and alerts user. (Python)(Node)(AWS)

Motion Sensor Lights: PIR sensor detects movement, sends alert to a bluetooth lightbulb to turn on.

DraftKing's Lineup Optimizer

Command Line scripts which download and pull data from popular fantasy football sites.

Parses csv information, and outputs an optimal line up for daily fantasy websites.

GroupMe Bots

Bots for Groupme deployed on Heroku. Bots actively search groupchats for certain keywords

(ex. /weather). Bot responses by posting information received by accessing weather, stock, Giphy, sports, and Wolfram Alpha APIs. (Node.js)

Addition Experience

Owner, September 2013 - Present

College Coolers LLC, Madison, WI

Developed an e-commerce model for water cooler delivery company

Recruitment Chair, Fall 2014-Spring 2015 -Sigma Alpha Mu

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