VINCENT WANG

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EDUCATION

Duke University, Trinity School of Arts and Sciences, Durham, NC — September 2011 – May 2015
Bachelor of Science in Computer Science

- Relevant Coursework : Data Structures; Design and Analysis Algorithms; Intro to Operating Systems; Computer Organization/Programming; Delivering Software: From Concept to Client; Intro to Databases; Software Design and Implementation; Distributed Systems; Intro to Artificial Intelligence; Intro to Computer Security; Computer Graphics

Solon High School, Solon, OH — August 2007 – June 2011
Honors Diploma

- SAT Score: 2300 / 2400 (Math: 800 | Reading: 760 | Writing: 740)

SOFTWARE EXPERIENCE

Tremco Inc., Cleveland, OH — May 2014 – August 2014
Automated Materials Research Analyst

- Launched project to research and prototype an automatic method of applying roof coatings and sealants
- Drove an initiative to use iRobot Create module as a starting point for this project in order to rapidly prototype a working model for live demonstrations to potential clients
- Utilized Python to create pathing scripts based on the PyCreate library that mapped the Open Interface commands to easy to use scripts, which drove the iRobot Create module to avoid obstacles and navigate a room based on sensor data feedback
- Delivered a prototype that maneuvered around basic obstacles in three months in a company where the average turnaround time for a project is longer than a year
- Created and analyzed reports of pathing efficiency to be used for future work in the field of automated material applications
- Reported research and test results directly to the Group President of Tremco to expedite processes of research and development

AndroidRx/GlassRx, Durham, NC — September 2014 – December 2014
Team Manager and Lead Backend Engineer

- Functioned as main backend engineer for product used by both physicians and patients in order to aid in the management and tracking of medications taken and prescribed
- Designed and built the MySQL database schema used to power both the Android app and the Google Glass app, based on the recommendations of multiple physicians and patient experiences
- Crafted the REST API on top of the MySQL database that served thousands of requests to the respective apps, and automatically synced information between the physician and their respective patients
- Integrated and tested the API endpoints into the Android application as lead QA engineer
- Managed team progress by issuing tasks in JIRA and enforcing timelines and creating sprints based on client expectations
- Project is available at: https://github.com/duke-compsci408-fall2014/GlassRx

GamifyLyfe, Durham, NC — November 2014 – December 2014
Backend Engineer

- Developed an achievement based web application designed to make completing tasks in real life more fun using Django and PostgreSQL
- Designed and coded the database table schemas that powered the Django object models and handled goal management, reward distribution, friend lists, as well as goal groups and privacy settings
- Created the backend and the corresponding front end for processing forms that took in media for personal profile customization
- Refactored and maintained various templates as well as their respective views by using Bootstrap
- Programmed and planned system of goals designed to incentivize completion of tasks based on gamification techniques

Omega Nu Game Engine, Durham, NC — October 2013 – December 2013
Project Manager and Backend Engineer

- Developed 2D turn based strategy game engine using Java that could replicate games such as Fire Emblem or Advance Wars
- Managed eight other software engineering students and one designer by providing specific timelines, liaising between the students and the professor, as well as monitoring progress on the distributed tasks
- Programmed and updated the map and highlighting views using Java Swing
- Researched and coded pathing algorithms in collaboration with teammates that were dependent upon variable terrain and maps
- Designed and implemented skeleton for flexible unit and action system creation, based upon user testing and prior experience
- Project API is available at: http://duke-compsci308-fall2013.github.io/oogasalad_OMEGA_NU/

SKILLS & INTERESTS

Experienced : Python, Java, Unix, Git, Eclipse
Competent : C, HTML/CSS/Javascript, JUnit, Django, MySQL, PostgreSQL, Swing, Bootstrap
Interests : Speed-Cubing, Video Games, Game Design, Swimming, Geocaching, Piano