

AHMED ALY

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EDUCATION

Tufts University – (Medford, MA)

December 2014

Bachelor of Science in Computer Science (Major GPA: 3.3)

Bachelor of Science in Mechanical Engineering (Cumulative GPA: 3.0)

RELEVANT COURSES AND PROJECTS

Computer Science: Web Programming, Mobile App Development, Intro to Programming (C++), Data Structures, Algorithms, Intro to UX, Computational Theory, Robotics

Mechanical Engineering: Calculus 1,2,3, Differential Equations, Thermodynamics, Applied Strengths, Mechanics

Web App Project [Food Tracker]

- Collaborated in a group of 3 to develop a web app, using Mongo, HTML, CSS, JavaScript, and Node.js to track expenses without a smart phone to help college students manage expenses

JumboBites iOS app Prototype (UI/UX)

- Created the wireframe for a restaurant lookup and order submission app using Photoshop and Flinto

TECHNICAL SKILLS

Programs: Illustrator, Photoshop, IntelliJ, Valgrind, R, AutoCAD, SolidWorks, MATLAB, LabVIEW, Mathcad, Arduino

Computer Languages and Technologies: JS (Angular, JQuery), Java (Groovy & Grails), Mongo, MySQL, HTML, CSS (SASS, Bootstrap), AWS (EC2, S3), C/C++

Languages: Bilingual proficiency in Arabic, professional working proficiency in Spanish

WORK EXPERIENCE

Gemvara (Boston, MA) – *Full Stack Software Engineer*

August 2014 - Present

- Devised and implemented a vendor dashboard so vendors and the company could communicate and track the status of orders
- Created a rendering dashboard that automated image rendering for jewelry designs. Created the UI and backend support for the rendering team to run a render and receive feedback on the process. Configured a scalable server system to lower the cost of maintaining in-house servers. At the same time, not having to move files around manually made the rendering team more efficient
- Built new testable features and customizable widgets following mockups, reducing the Design Team's dependency on the Engineering Team
- Scrum Master for Scrum Team
- Organized and presented bi-weekly demos to the company to illustrate the Engineering Team's sprint work and discuss business value

PlumVoice (Boston, MA) – *Web Developer Intern*

Summer 2014

- Wrote bash scripts to automate monitoring servers saving interns from checking servers manually everyday
- Constructed a web app that generated lunch recommendations using Javascript, HTML, CSS, PHP and MySQL

Institute for Pediatric Innovation (Boston, MA) - *Pediatric Pressure Ulcer Project Intern*

Fall 2013

- Redesigned the Pulse Oximeter to have two inflatable rings that alternate pressure between two fingers to prevent pressure ulcers in infants
- Wrote C/Arduino code to transfer pressure between the rings
- Designed circuits and built the prototype to demo

Tufts Technology Services (Medford, MA) - *Computer Consultant*

Summer 2013 - Spring 2014

- Identified hardware/software issues and repaired student computers

Tufts Environmental Engineering Dept. (Medford, MA) - *Data Analyst / Researcher*

Spring & Summer 2013

- Compiled, cleaned, and plotted large datasets in R & Matlab

Kurzweil (Waltham, MA) - *Hardware Engineer Intern*

Summer 2011 & 2012

- Machined and designed plywood systems for new digital pianos and mounted their circuit boards

OTHER INTERESTS / ORGANIZATIONS

Digital Art - draw and design using Photoshop and Illustrator