AHMED ALY

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EDUCATION

Tufts University – (Medford, MA)   *December 2014*
   Bachelor of Science in Computer Science & Mechanical Engineering

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 with a group of 3 developers to create a web app, using Mongo, HTML, CSS, JavaScript, and Node.js to track expenses without a smart phone

JumboBites iOS app Prototype (UI/UX)
- Created the wireframe for a restaurant lookup and order submission app using Photoshop and Flinto

TECHNICAL SKILLS

Software: Android, AWS [EC2, S3, Lambda], SolidWorks, MATLAB, LabView, Arduino
Programming Languages and DB: Java [Kotlin & Groovy and Grails], JavaScript [Angular & Jquery], C/C++, HTML/CSS [SCSS, SASS & Bootstrap], Mongo, MySql
Languages: Bilingual proficiency in Arabic, professional working proficiency in Spanish

WORK EXPERIENCE

Intrepid Pursuits (Cambridge, MA) – *Android Developer*   *May 2016 – Present*
- Utilized state of the art android libraries such as Kotlin, Dagger, Espresso, JUnit, Mockito, RxJava, Retrofit & Butterknife
- Technical lead in Intrepid's Internal Android App which enables communication between multiple vehicles on a road trip
- Designed, pitched, and implemented an architecture that utilizes Dagger, MVP, and testing to refactor Teva Pharmaceutical's Inhaler Dosage Management App in order to modularize its code for use in future apps
- Developed test-driven code for Teva Pharmaceutical's main white label app. Contributed features like login flow and payment processing
- Built "The Ringer" app to pitch to Bill Simmons following the design team's specs. The app combines Mr. Simmons' podcast, Twitter and Medium accounts and allows the user to tune in, stream, and read all his content from one single platform
- Engineered an Android SDK for Localytics to facilitate their client's integration with Localytics' software
- Enhanced and upgraded the Android Demo App for Thread Group, NXP, and Silicon Labs using their new protocols to connect and control their home appliances over a mesh network

Gemvara (Boston, MA) – *Full Stack Software Engineer*   *July 2014 – April 2016*
- Devised and implemented a vendor dashboard so vendors and the company could communicate and track the status of orders
- Adapted site to be responsive and mobile friendly
- 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

OTHER INTERESTS

Digital Art - Draw and design using Photoshop and Illustrator