Victor Javid Dadfar

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Education

Bachelor of Science; Major in Biomedical Engineering, Computer Science — 2014 - 2018
Johns Hopkins University, Baltimore, MD – Grade Point Average: 3.7
- Dean's List (3.5 GPA or above) All Semesters

Skills

Programming: C/C++, Java, HTML/CSS/JavaScript, Objective-C, Python/CudaTools
Platforms: Eclipse, Matlab, Xcode, Android Studio, Unix, Arduino
Areas of Expertise: Web Dev, Data Processing, Computer Graphics, UI Design
Skilled in: Leadership, Programming, Public Speaking, Product Development

Research

Lead Front-End Developer – Center for Bioengineering Innovation and Design — Mar '16–present
Faculty Advisor: Dr. Robert Allen, Johns Hopkins University
- Conducted over 400 user studies to target a solution landscape and product vision
- Working with a committee of experts in the fields of Medicine, IP Law, Health Informatics, and Software Engineering
- Developing a brand-new platform to allow physicians to verify medication adherence for Coronary Artery Disease patients

Project Manager – Engineering World Health — Nov '14-present
Johns Hopkins University
- Lead a multidisciplinary team of engineers and pre-medicine students to conduct background research, prototype creation, and product testing
- Designing a low-cost labor monitor device for developing countries to preemptively alert mothers of possible complications and allow them to seek proper medical care in a timely manner

Research Assistant - I-STAR Imaging Lab — Jan '16-Sept '16
Faculty Advisor: Dr. Jeff Siewerdsen, Johns Hopkins Medicine
- Researched and tested a cutting-edge workflow for surgical tracking involving minimal marker contact while maintaining tracker accuracy
- Designed first-of-a-kind custom surgical tracking markers with unique three-dimensional shapes to be used in both infrared and radiographic tracking

Work

Full-Stack Developer – Online Research and Internship Database (ORID) — Jul '16–present
Advisor: Dr. Eileen Haase, Johns Hopkins Department of Biomedical Engineering
- Developing an intuitive searchable and scalable database of research positions accessible to Hopkins students, allowing them to browse and apply for available positions instantly

Course Assistant – Introduction to Programming — Sept '15-present
Professor: Mrs. Joanne Selinski, Johns Hopkins Department of Computer Science
- Introduce inexperienced students into programming with Java

Projects

Adaptive Object Detection Algorithm, *Modeling and Design Team* — Dec '14
- Tasked with developing a solution to record and track positions of objects for the duration of a video clip
- Wrote an algorithm to automate the process by detecting objects with unique identifiers and adapt as object motion fluctuated

Distribution Platform for Project Ideas, *Medhacks Hackathon* — Aug '16
- Tasked with designing and developing a centralized platform for hackathon project ideas
- Created a scalable database solution, utilizing the Parse Server API and an intuitive design language for a seamless user interface

Leadership

Design Team Leader, *Engineering World Health*
Lead Software Developer, *Medhacks Hackathon*
Founding President, *Hackerlab*