# Victor Javid Dadfar

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## Education

**Bachelor's of Science; Major in Biomedical Engineering, Minor in Computer Science** — 2014 - 2018
*Johns Hopkins University, Baltimore, MD*
- Dean's List (3.5 GPA or above) All Semesters

## Skills

**Languages:** C/C++, Java, HTML/CSS/JavaScript, Objective-C, Python/CudaTools
**Software Platforms:** Eclipse, Matlab, Xcode, Arduino, Unity, Android Studio, Unix, Parse
**Areas of Expertise:** Web Development, Computer Graphics, UI Design
**Summary:** Leadership, Public Speaking, Research and Development

## Research

**Design Team – Center for Bioengineering Innovation and Design** — Mar '16–present
*Research Intern– Programmer*
*Faculty Advisor: Dr. Robert Allen, Johns Hopkins University*
- Conducted over 400 user studies to target a solution landscape and product vision
- Developing an online platform in order to streamline the data collection process for the doctors and improve communication with their own patients

**Design Team – Engineering World Health** — Nov '14-present
*Team Leader – Programmer*
- Led a multidisciplinary team of engineers and pre-medicine students to conduct background research, prototype creation, and product testing
- Designed a low cost labor monitor device to alert mothers in developing countries when they are about to go into labor so they can seek proper medical care

**I-STAR Imaging Lab – Johns Hopkins Medicine** — Jan '16-present
*Research Intern - Programmer*
*Faculty Advisor: Dr. Jeff Siewerdsen, Johns Hopkins Medicine*
- Designed custom infrared markers and experimented with registering markers used in surgical tracking systems with radiographic images pre-op so those markers would no longer need to be in the operating space

## Work

**Student Web Developer – Online Research and Internship Database (ORID)** — Jul '16–present
*Advisor: Dr. Eileen Haase, Johns Hopkins Department of Biomedical Engineering*
- Introduced the idea of a search engine for research positions; immediately won the support of the department head
- Currently developing an online database for students to conveniently browse through and apply for all available research lab positions

**Course Assistant – Introduction to Java** — Sept '15-present
*Professor: Mrs. Joanne Selinski, Johns Hopkins Department of Computer Science*
- Led weekly lab sessions, graded homework and midterms, held office hours

## Accomp-lishments

**Adaptive Object Detection Algorithm,** *Modeling and Design Team* — Dec '14
- For the purposes of the project, needed to calculate and record the position of certain objects for every frame of a video clip
- Wrote an algorithm to automate the process by detecting objects with unique characteristics (e.g. brighter colors) and adapt as object motion increased

**Distribution Platform for Project Pitches,** *Medhacks Hackathon* — Aug '16
- Wholly designed and developed a centralized platform to distribute project ideas
- Programmed from scratch, utilizing remote databases, the Parse Server API, and intuitive design language
- http://pitch.medhacks.org

## Leadership

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