Harry Vancao

hvancao888@gmail.com | 410.777.8989

EDUCATION

UNIVERSITY OF MARYLAND
BS in Computer Engineering
Expected May 2018 | College Park, MD
Minor: **Business Analytics**
Special Program: **University Honors**
GPA: 3.827 / 4.0

PROFILE

LinkedIn:// **HarryVancao**
GitHub:// **HarryVancao**
Devpost:// **HarryVancao**

COURSEWORK

Currently Taking:
Algorithms
Machine Learning
Database Systems
Computer Architecture
Taken:
Signals and Systems
Engineering Probability
Digital & Analog Electronics
Computer Systems Programming

SKILLS

LANGUAGES
Proficient:
Java • C • Matlab • Visual Basic
Familiar:
C# • JavaScript • Verilog • LaTeX

HARDWARE
Arduino • Circuit Design & Analysis • Rapid Prototyping

HONORS

Sonal and Ashish Deshpande Endowed Scholarship
Dean's List (All Semesters)

EXTRACURRICULARS

Terrapin Hackers 2014 - 2017
Chinese Student Association 2015 - 2017
Golden Key International Honor Society 2015 - 2017
Badminton Club 2015 - 2016

PROFESSIONAL EXPERIENCE

MATHWORKS | Software Engineering Intern
Expected May 2017 – Aug 2017 | Natick, MA
- Matlab development

UNIVERSITY OF MARYLAND | Undergraduate Teaching Fellow
Sep 2016 – present | College Park, MD
- Led weekly recitation sessions comprising of 12 students to introduce concepts such as pointers, memory management, data structures, and algorithms
- Worked closely with the professor to create and grade course materials including exams, homework and projects in the C programming language

VACCARO'S ITALIAN PASTRY SHOP | Stocker & Cashier
May 2016 – Aug 2016 | Baltimore, MD
- Ensured a quality experience for all customers with products and service to facilitate strong community-business relationships

RESEARCH

MAKEABILITY LAB | Research Intern
May 2016 – Aug 2016 | College Park, MD
Mentor: Lee Stearns
- Implemented novel technologies for project HandSight, a system intended to improve accessibility of digital information to the visually impaired
- Leveraged image processing techniques to accentuate hidden features in hyperspectral images for machine learning classification
- Explored optical flow with images transferred by an optical fiber and gradient index lenses using Arduino and C#

NATIONAL SECURITY AGENCY | Undergraduate Researcher
Sep 2015 – Dec 2015 | College Park, MD
Mentors: Jordan Goodman & Jeff Starr
- Co-authored white paper report on crowd-sourcing sensor data from mobile devices for the purpose of detecting events which affects public security
- Developed an iOS application to test the reliability of a peer-to-peer networking scheme

PROJECTS & HACKATHONS

CONNECT WEAR | Bitcamp 2016
- Introduced a wearable gaming platform for kids to encourage physical and competitive play
- Designed and implemented all of the necessary hardware

FREEME | Bitcamp 2015
- Addressed the difficulties of event planning with an application that broadcasts a user's availability to a close circle of friends
- Assisted in front end development of the application and overall user interface design