VIVIEN DING

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SKILLS

Product Management: Agile/Scrum, User-centered Design, Usability Testing, Technical Writing

Programming: HTML/CSS, JavaScript, Python, C++, Kotlin

Software Tools: Git, Visual Studio Team Services, Android Studio, Arduino

EXPERIENCE

Tulip Retail   Product Management Intern   Jan 2018 - Apr 2018

- Maintained feature ownership and co-ordinated with design, engineering, and QA teams on key CRM iOS app module responsible for **60% of company revenue**
- Delivered **5+ large-scale features** for major North American retailer, which experienced a week-to-week **18% sales lift** in pilot stores due to increased customer retention rates

Harvard University   Product Research Assistant   May 2017 - Aug 2017

- Developed a novel imaging lense that is **40% more efficient** by designing algorithms to automate simulations and measurements, with applications in medical imaging
- Analyzed data with MATLAB to deliver key findings and figures to **3+ journal publications**

University of Waterloo   Product Developer Intern   Jul 2016 - Feb 2017

- Designed and built 2 functional models of the human vocal tract by applying self-guided research and leveraging **Autodesk Fusion** to mimick human MRI scans
- Manufactured models using machining, complex molding, and 3D printing, integrating sound functionality and interactivity with **Arduino**

PROJECTS

Bit Tap   Kotlin, BitCore API, NodeJS, MongoDB   April - May 2018

- Designed and implemented a **NFC-enabled android wallet** for secure Bitcoin transactions between peers and small businesses

Haven (QHacks Winner)   Python, Flask, OpenCV   February 2018

- Built an **IoT-based face recognition security system** using OpenFace API, hosted with AWS
- Used Qualcomm dragonboard for hardware functionality and for live image processing

SafeKey   C++, Arduino, Sketch   September - December 2017

- Performed design case study to conceptualize and develop an **Arduino-controlled safety keychain** with light, alarm, GPS, and app connectivity

EDUCATION

University of Waterloo   Systems Design Engineering (B. ASc.)   Expected April 2022

Relevant Courses: Introduction to Design, Human Factors in Design, Introduction to Computing, Digital Systems

Awards: Dean's Honours List (3.94 GPA), President's Scholarship of Distinction, Engineering Faculty Scholarship