David J. Tran

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EDUCATION:

Boston University, Computer Engineering, September '13 – May '17   Boston, MA

    GPA: 3.58

    Dean's List   (Fall 2013, Fall 2014 – Present)

Boston Latin School, Class of 2013, September '07 – June '13   Boston, MA

    National Honors Society   (2011 – 2013)

NSLI-Y APSA China Scholars, June '12 – August '12   Beijing, China

WORK EXPERIENCE:

Java Software Developer, *CIDAR Lab*   May '16 – Present   Boston, MA

- Designing and implementing a wide use case optimal selection algorithm for flow cytometry experiments in synthetic biology, in addition to an API and web application for the algorithm.
- Creating a REST API for lab-specific MongoDB badge service. Programming badge service to be compatible with the Mozilla Open Badge Standard.
- Moving lab applications to Docker environments, enabling development environments and lab applications to be quickly and easily setup on any OS.
- Upgrading/Migrating existing applications to newer libraries and frameworks, requiring quick understanding of documentation and library structure.

Resident Assistant, *Boston University*   August '15 – Present   Boston, MA

- Promotes academic and social involvement, addressing student needs while helping them cultivate their undergraduate experience
- Responsible for developing a community of 50 residents and conflict mediation
- Serves on crisis response on-call rotation for an area of 600 residents
- Upholds and enforces all University and Housing policies
- Responsible for planning and executing 4 resident programs per semester

Smart Lighting Researcher, *Boston University*   June '15 – Sept. '15   Boston, MA

- Led self-driven beam steering and indoor tracking project
- Researched, designed, and delivered an inexpensive and scalable proof-of-concept of tracking system to give preliminary insight into future Li-Fi systems
- Assisted graduate student in applying a microelectromechanical mirror, developing the control algorithm used in tracking
- Attended yearly Smart Lighting conference which consisted of attending informational sessions and networking.

Physics Learning Assistant, *Boston University*   Sept. '14 – May '15   Boston, MA

- Attended lecture, created in-class demos, and facilitated discovery of physics concepts.
- Lead discussion classes to strengthen student mastery over learned concepts
- Held weekly office hours for students to come in and discuss physics concepts

SKILLS AND INTERESTS:

Software   C++, Java, Python, Javascript, Linux, Docker, Android, MongoDB, Spring Framework, Jetty 9, Unreal Engine 4, TCP/IP, Computer Vision, Microsoft Office

Electrical   Soldering, PCB Design, Microcontrollers, Serial Communications

Languages   Working knowledge of Mandarin and Cantonese, Study of Latin (4 years), English

Student Groups   MakeBU, DeisVR (Virtual Reality)