HUAN TRUONG

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Professional Software Engineer: I deliver reliable and performant software on PCs, in vehicles, and in near space.

Education

- **University of Missouri – MO** – Doctorate in Informatics   *Aug 2012 – Jul 2018*
- **Truman State University – MO** – B.S. in Computer Science with Department Honors   *Jan 2008 – Dec 2011*

Work Experience

- **Tesla Inc. – Palo Alto, CA** – Software Engineer   *Sep 2018 – Present*
  - Develop software on the In-Car-Entertainment (Infotainment) system, deliver new features and bug fixes to the fleet of half-a-million Tesla cars in production.

- **Crankshaft GNU/Linux – Raleigh, NC** – Founder, developer   *Jan 2018 – Present*
  - Founded Crankshaft, a Linux platform that transforms the Raspberry Pi computer to an Android Auto car head unit. Hundreds of real deployment in the first month published on Github – #1 Open Source Shell project in Raleigh.
  - Managed the project: Project planning, implementing features, engaging users, writing documents, engaging the community, collaborating with developers, fixing hard/software bugs, making deadlines.

- **University of Missouri, Evolutionary Systems Lab – Columbia, MO** – Research Assistant *Aug 2012 – Jul 2018*
  - Conducted research on filtering noise from multi-dimensional biological data using high-performance computing.
  - Published papers on CUDA-accelerated sequence alignment, taxonomic clustering, genes coexpression patterns.
  - **Publications**: Google Scholar Profile: Huan Truong N.H.

- **A*STAR, Genome Institute of Singapore – Singapore** – Research Officer   *May – Aug 2015*
  - Assisted in kick-starting *factpub.org*, a project that promotes open science. Crafted a browser extension that allows researchers to annotate on academic papers and share their annotations.
  - Technologies: Javascript, HTML, Go, Bash.

- **Carnegie Mellon University, Human-Computer Interaction Inst. – Pittsburgh, PA** – REU Intern *May – Jul 2011*
  - Conducted research on enhancing AI conversational capability leading to more effective learning-by-teaching.

- **Truman State University, IT Services – Kirksville, MO** – Software and Web Developer   *Mar 2008 – Aug 2012*
  - Took various roles including helping end-users, developing monitor-and-control systems for PCs, reducing cost (20x) for classroom hardware installation, creating the campus mobile app, deploying a code repository.

Other Activities & Recognition

- **High Altitude Balloon (HAB) Education – St. Louis, MO** – Co-Founder   *Oct 2014 – Present*
  - Provided opportunities for high school students to get involved in STEM by working on HAB launches to near space.
  - Engineered and optimized software & hardware, planned lesson plans, organized workshops and outreach events.
  - Technologies: Embedded/AVR/Arduino, Serial communication, GPS. Add'l: Ham radio/APRS, Go, NodeJS.

- **Other activities** –
  - Learner: Completed the first-ever MOOC course on elementary electronics (Grade: A) (2012).
  - Security researcher, Bug Hunter: #333 globally on Google Vulnerability Research Hall-of-Fame (Apr 2018)
  - Firmware developer: Worked on and submitted patches to various open-source projects: OpenWRT, Cyanogen-Mod, exfat Linux driver, especially the Chumby to bring up new features and fix bugs (2012-2017).
    Developed Two-Factor Authentication in a Wristwatch - Ultra low-power 2-factor auth on 2KB RAM.
    Developed EzPi4ME – enabling flashing of 100% free software firmware on commodity Chrome laptops (2017).
  - Writer: Personal blog (tnhh.net) on technology, open source, security, and science matters.
  - Campus volunteer: MU Informatics Institute, Vietnamese Student Association, Free Software Club.