HUAN TRUONG

htruong@tnhh.net Github: github.com/htruong (+1) 858-848-7635 LinkedIn: linkedin.com/in/huantruong

I deliver reliable, performant, and secure software on PCs, on GPUs, in vehicles, and in space. I am looking for an opportunity to deliver a great product that customers and developers love.

Education

• University of Missouri - MO - Ph.D. Candidate in Bioinformatics

Aug 2012 - Aug 2018

• Truman State University - MO - B.S. in Computer Science. Department Honors

Jan 2008 - Dec 2011

Work Experience

Crankshaft GNU/Linux – Raleigh, NC – Founder, developer

Jan 2018 - Present

- Founded Crankshaft, a distro that transforms the Raspberry Pi to an open source Android Auto car head unit.
 Hundreds of real deployment, 600 stars in the first month published on Github #1 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.
- Technologies: Bash, C, C++, Git, Protobuf, cross-compiling, virtualization, Linux, embedded.
- University of Missouri, Evolutionary Systems Lab Columbia, MO Research Assistant Aug 2012 Present
 - Conducted research on filtering noise from multi-dimensional biological data using high-performance computing.
 - Published papers on CUDA-accelerated sequence alignment, taxonomic clustering, motif finding.
 - Technologies: CUDA (40x speedup), Go, C, C++, Bash, R, Gephi, graphs, bioinformatics, Git.
 - 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 Institute Pittsburgh, PA Summer REU Intern May – Jul 2011
 - Conducted research on enhancing AI conversational capability leading to more effective learning-by-teaching.
 - Technologies: NLP, R, Java, CVS.
- 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.
 - Technologies: C, C++, Linux, Web dev, Android/iOS dev, Git.

Other Activities & Recognition

• High Altitude Balloon (HAB) Education – hab education – 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, Ham radio/APRS, Go, NodeJS
- · Other activities -
 - Learner: Completed the first-ever MOOC course on elementary electronics (Grade: A) (2012).
 - Security researcher: Developed Two-Factor Authentication in a Wristwatch Ultra low-power on 2KB RAM.
 - 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, esp. Chumby to bring up new features and fix bugs (2012-2017).
 Developed EzPi4ME enabling flashing of 100% free software firmware on commodity Chrome laptops (2017).
 - Campus volunteer: MU Informatics Institute, Vietnamese Student Association, Free Software Club.