

VIET Q. TRINH

Room 209 - Engineering 2
1156 High St, Santa Cruz, CA 95064
<https://users.soe.ucsc.edu/~vqtrinh>
vqtrinh@ucsc.edu

RESEARCH INTEREST

Computer Vision, Computer Graphics, and Applied Machine Learning; Focus on state-of-the-art assistive technology for people with visual impairments: scene understanding with annotation based on deep learning, semantic spatial information for augmented reality, and point cloud segmentation

EDUCATION

University of California, Santa Cruz	Ph.D.	2019	Computer Engineering
San José State University	M.S.	2014	Computer Science
University of California, Davis	B.S.	2012	Computer Science

PUBLICATIONS

Trinh, V. Master's Thesis. *Flow of Population in a Cellular Automata Environment: Building Editor*. San Jose State Scholar Works. 2013

PATENTS

(#85188048US01) Cloud-based Phone Services Accessible in the Cloud by a Remote Device

TEACHING EXPERIENCE

University of California, Santa Cruz, CA **09/2015 - present**

Teaching Assistant

- CMPE 80N: Introduction to Networking and the Internet
- CMPE 80A: Universal Access: Disability, Technology, and Society

Foothill College, Los Altos Hills, CA **03/2014 - present**

Computer Science Instructor

- CS-01A: Object Oriented Programming Methodologies in Java
- CS-31A: Introduction to Database Management Systems
- CS-63A: Developing Applications for iOS

- CS-81A: 3D Graphics Programming

PROFESSIONAL EXPERIENCE

Huawei, Santa Clara, CA

06/2016 - present

Research Intern, Project of Cloud Phone as a Service (cPaaS)

- Develop a cross-platform environment that is compatible with IoT devices
- Extend remote interaction capabilities of Apache Guacamole, especially Mobile VNC and bidirectional PulseAudio to demonstrate cPaaS proof of concept
- Customize an optimal Android OS including embedded VNC/RDP for remote accessibility, SIP/WebDav/CalDav for basic telephony services, and drivers for most of touchscreen devices (ie: vehicle navigation system, fridge smartscreen)

Apple Inc, Cupertino, CA

12/2013 - 09/2015

Software Engineering Contractor

- Enhanced internal login services: issuing time-stamp tokens, authenticating, and authorizing employees using EIDs and secret passcodes; security concepts in usage are Symmetric Key, and Public Key Infrastructure
- Developed new features for user interface web pages for internal system in JavaScript; web frameworks in usage are LESS and KUBE

Symantec Inc, Mountain View, CA

06/2013 - 12/2013

Software Engineer Intern

- Enhanced Symantec's mainline products; developed MAC address generator application for Public Key Infrastructure (PKI) Magnum project in Java
- Deployed and analyzed web applications (certificate authority manager, public key infrastructure manager, certificate services) in Apache Tomcat
- Developed shell scripts to map web applications to new versions of Bouncy Castle API

HONORS AND AWARDS

2016	Regents Fellowship for PhD study
2015	Society for Hispanic Professional Engineers Graduate Ambassador
2014	Community Service Award by the City of Cincinnati, Ohio, USA
2012	First Place, Microsoft Big App Contest in UC Davis, California, USA
2008	Bank of America Academic Achievement Award, USA
2007	National Honor Academic Award, USA