

Samuel Cheng

Work Experience

Software Engineer

IQ Inc.

August 2017 - Present

- Full-stack development of REST API web application.
- Migrated monolithic pharmaceutical drug management system with ~20 complex screens to a microservice architecture.
- Developed user interface to automate bulk manipulation of hospital data. Reduced time from days to minutes for field implementation staff.
- Led internal UX working group of 4-6 people. Taught UX-related workshops and training to team members every month. Presented at the annual company conference (50 attendees) twice.

Graduate Research Assistant

Georgia Tech Research Institute

August 2015 - May 2017

- Developed computational model for measuring skill decay in organizational design teams. Published in HFES 2017 journal.
- Designed and conducted user research experiments to model how strain among hand tools affects fatigue. Delivered results to sponsoring company

Computer Scientist

U.S. Army Network Enterprise Technology Command

July 2012 - July 2015

- Developed user interface to automate enterprise-wide deployment (70+ Army bases) of server files.
- Authored technical guidance to replace Army's aging public key infrastructure (PKI) with virtual SHA-256-enabled digital certificate servers. Resulted in enterprise adoption of the proposed system.

Contact Details

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Education

M.S. Human-Computer Interaction

Georgia Institute of Technology

2015 - 2017

B.S. Computer Science

Carnegie Mellon University

2008 - 2012

Languages/Frameworks

Javascript

React / Redux

Typescript

C# / .NET

Java

Python

Other Technical Skills

HTML/CSS

SQL

Microservice Architecture

REST APIs

Software and Processes

Docker

Agile / Scrum / Kanban

User experience

Human-centered design