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EDUCATION

University of California, Los Angeles
B.S. in Computer Science — September 2014 - June 2018

- GPA: 3.60, BD Academic Achievement Scholarship

EMPLOYMENT

Prysm
Software Engineering Intern — June 2017 - September 2017

- Developed infrastructure to test the accuracy of Amazon Alexa skills (C++)
- Created applications integrating Amazon Alexa with the Microsoft Graph API (Node.js)
  - e.g. send emails and search a person's contacts list with voice
- Deployed an OAuth authorization server to link Amazon Alexa accounts with Prysm Synthesis accounts(Node.js)

Prysm
Software Engineering Intern — June 2016 - September 2016

- Prototyped a voice control system to add to Prysm's multitouch software, Synthesis (C, bash scripting, JavaScript)
  - This system routed voice commands from an Amazon Echo to a Raspberry Pi web server to Synthesis's internal APIs.
  - Lended credence for a voice user interface on the product roadmap

CapsoVision
Engineering Intern at CapsoVision — July 2015 - September 2015

- Wrote a validation protocol for the medical software, CapsoView, to pass audits by the FDA
- Reorganized and documented clinical trial data for CapsoCam

PROJECTS

View the source code and READMEs on my github.

hanstxu.github.io A personal website (HTML, CSS, JavaScript)
resume.tex A resume (LaTeX)
bash.exe Bash commands for Windows cmd (C++)
alexa_endpoint_js A web server for an Amazon Alexa Skill (Node.js)
alexa_endpoint_cpp A web server for an Amazon Alexa Skill (C++)
simple_json_cpp A lightweight JSON library (C++)
class_refresh A notification chrome extension (JavaScript)
LightRunner A space asteroid dodging game utilizing a Leap Motion sensor (C++)

COURSEWORK

- Operating Systems (C, C++)
- Networking (C++)
- Database Systems (HTML, CSS, PHP, SQL, C++)
- Programming Languages (OCaml, Java, Prolog, Scheme, Python)
- Compilers (Java)
- Software Engineering Capstone
- Algorithms and Complexity
- Theory of Computation
- Artificial Intelligence (Lisp)
- Web Applications (HTML, CSS, Javascript, Java)
- Computer Graphics (JavaScript, C++)
- Data Structures (C++)
- Machine Learning (Python)

LANGUAGES

- C++ ◉◉◉◉◉◉
- C ◉◉◉◉◉◉
- Java ◉◉◉◉◉○
- Bash ◉◉◉◉○○
- HTML ◉◉◉◉○○
- CSS ◉◉◉◉○○
- JavaScript ◉◉◉◉○○
- Scheme ◉◉◉◉○○
- Lisp ◉◉◉◉○○
- LaTeX ◉◉◉◉○○
- OCaml ◉◉◉○○○
- Python ◉◉◉○○○
- SQL ◉◉◉○○○
- PHP ◉◉◉○○○
- Prolog ◉◉○○○○

SOFTWARE

- Linux
- Make
- Twisted
- MySQL
- Docker
- Apache Spark
- AWS EC2
- Git
- Gradle
- Node.js
- MongoDB
- Vagrant
- Locust
- AWS Lambda