KATHRYN BUNNER

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EDUCATION

Stanford University

B.S., Computer Science | Minor, Native American Studies

Programming Languages: Python, Java, JavaScript, HTML, C++, SQL, Google Apps Script

Relevant Coursework: Applied Machine Learning | Computer and Network Security | Data Management and Data Systems | Web Applications | Design and Analysis of Algorithms | Object-Oriented Systems Design | Computers, Ethics, and Public Policy | Cryptography | Probability for Computer Scientists | Breaking Codes, Finding Patterns | From Languages to Information (NLP) | Principles of Computer Systems | Cybersecurity: A Legal and Technical Perspective | Design and Analysis of Algorithms

INDUSTRY EXPERIENCES

Google, *Mountain View* | Incoming Engineering Resident *Starting Sept 2019*

+ Technical rotation program to prepare recent comptuer science graduates to transition into successful software engineers

PwC, *San Francisco* | Cybersecurity and Software Engineering Intern *Summer 2018*

+ Worked on client Bug Bounty program to verify and triage reported vulnerabilities, created fixes for issues such as XSS and subdomain takeovers, validated the successful fix of dozens of bugs, and updated researchers on the status of bounties
+ Built a dynamic web tool using Google Apps Script and Python to automate the ticketing process of Bug Bounty utilizing API calls, parsing, and mapping to locate the owner of domains and more efficiently assign Jira tickets

Raytheon, *El Segundo* | Software Engineering Intern *Summer 2017*

+ Extended Coverity Software coverage through the development of a series of static analysis checkers in C++, which detect security vulnerabilities in internal code bases written in C
+ Produced a database of next-generation best practice guidelines for hardware components based on recent publications on cyber countermeasures in control-flow integrity and hardware debugging

CISAC, *Stanford University* | Cyber Research Intern *Summer 2016*

+ Worked under Dr. Herb Lin to construct educational cybersecurity materials on topics like attribution and healthcare.

SOFTWARE PROJECTS

Yup'ik/English Language Translation Tool (Python)

+ Created a Python script to parse a PDF and construct the backend data structure of a more accessible and comprehensive translation tool to help preserve the indigenous Yup'ik language
+ Project won first place at the 2017 AISES National Conference miniHackathon

Chatbot (Python, Unix)

+ Implemented a interactive Chatbot that recommended movies based on user's preferences and sentiment; incorporated stemming, regular expressions, and logarithmic based recommendations

MapReduce (C++, Unix)

+ Built a MapReduce Framework utilizing multiprocessing, networking, threading, and distributed computing techniques

LEADERSHIP AND AWARDS

Stanford American Indian Science and Engineering Society | President 2017-2018, Engineering Diversity Liaison 2016-2017, Development Chair 2015-2016, Frosh Intern 2014-2015

Stanford Powwow | Financial Officer 2016-2017

Stanford Delta Delta Delta | Academic Chair 2016-2017, Reference Chair 2015-2016

School of Engineering Awards | 2017 Rising Leader of the Year, 2016 Exceptional Commitment for Engineering Diversity Programs