

Danny Chen

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EDUCATION

Bachelor of Science in Computer Science

2012-08/2016-05

University of Texas at Austin

Coursework: Operating Systems, Cryptography, Algorithms, Network Security, Artificial Intelligence, Automata Theory, Theory of Computation

TECHNICAL SKILLS AND KNOWLEDGE

Languages: C, Bash, Python, x86 Assembly, Java, Javascript, Golang, Ruby

Technologies/Tools: Amazon EC2, Amazon VPC, Git, Travis CI

Operating Systems: Linux

EXPERIENCE

Senior Software Engineer

2021-08-02/Present

Speech Runtime, Rev.ai

- Helped build a high performance automatic speech recognition (ASR) application
- Implemented a feature that allows for customized language models to our speech-to-text service

Software Development Engineer II

2016-07-05/2021-06-28

EC2 Networking, Amazon Web Services

- Worked as part of a team that performs routing and packet translation for all network traffic going in and out of EC2 worldwide.
- Helped to build a custom networking stack and low-level packet processing application
- Implemented the network security layer for Inter-Region VPC Peering.
- Worked on a 24/7 oncall shift to troubleshoot hardware and software failures in production.

Software Development Engineer Intern

2015-07-02/2015-08-28

Platform Excellence, Amazon.com

- Worked as part of the team that monitors latency on the Amazon.com website.
- Created a data visualization tool for a terabyte-scale Redshift cluster.

Software Developer Intern

2014-07-02/2014-08-27

Software Verification Team for WebSphere Application Server, IBM

- QA and tested IBM WebSphere.
- Wrote scripts to do automated testing of new releases of Websphere.

PERSONAL PROJECTS

HeapChecker - <https://github.com/SrsBusiness/HeapChecker>

- Proof of concept for a strace-style tool that traces a target program's heap allocations
- Handles ELF binaries for x86_64 System V that use a limited set of dynamic linking types

Minecraft Client - <https://github.com/NosotrosNueces/mcc>

- Collaborated with friends to implement the Minecraft Client protocol
- Provides a network client API to connect to a server and play
- As a POC implemented bots that can do simple tasks like attack enemies, path-find on command

Gameboy Emulator - <https://github.com/mukkid/GoBoy>

- An active collaborative project with a friend to implement software emulation of the Gameboy console.
- Completed full emulation of the Z80 CPU

Chess AI - <http://github.com/SrsBusiness/Party>

- Exploration into how performant Chess engines are implemented using techniques like bitsets and alpha-beta pruning