

Jeremy Ahrens Huang

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Education

Carnegie Mellon University – Bachelor of Science in Computer Science May 2019

GPA: 3.5/4.0

Minor: Physics

Honors: Dean's List of CMU School of Computer Science, 2 semesters

Relevant Coursework: Operating System Design and Implementation, Compiler Design, Introduction to Machine Learning (Master's), Quantum Computation and Information (PhD)

Experience

Amazon AWS, Software Development Engineer Intern May – Aug 2018

- Designed and implemented an AWS stack to index logs in ElasticSearch
- Wrote a log search CLI tailored for the troubleshooting team
- Implemented Metrics and Alarms for AWS stack

BirdBrainTechnologies, iOS Developer May – Aug 2017

- Rewrote concurrency model to improve iOS interface responsiveness
- Doubled command output speed to paired micro-controller
- Re-architected iOS backend to support concurrency
- Rewrote document model to support editing in the cloud

Cognitive Axon Lab at CMU, Research Assistant July – Aug 2016

- Re-implemented simulation of go/no-go decisions in the motor cortex
- Achieved 6x speedup over old numpy drift diffusion model in Python

Beijing ColorfulClouds Technology Company, Software Engineer June – July 2016

- Developed watchOS 2 complications for Cai Yun Weather App
- Created options pane and sub-panes of 3.0 version of iOS app

Academic Projects

15-410 Operating System Design and Implementation Spring 2019

- Designed and implemented a Unix-like kernel with one partner in 7 weeks
- Extended the kernel to support multiple para-virtualized guests
- Designed and implemented a user-space thread library

15-411 Compiler Design Fall 2017

- Designed and implemented a full C0 to x86-64 compiler written in Swift with one partner
- Extended the compiler to compile to LLVM and use LLVM to compile to target instruction set

Leadership

CMU Humanist League Aug 2015 – May 2019

- Served as Events Coordinator, Media Manager, and Social Chair
- Organized and introduced speaker events for up to 450 people
- Moderated group discussions on controversial topics
- Organized social and service events

Programming Languages

C, Python, Swift, Objective C with Cocoa, SML, Java, LISP