

---

## SEAN KIM

714-501-6468  
seanhkim127@gmail.com  
2111 E Pine St  
Seattle, WA 98122  
[github.com/hngmn](https://github.com/hngmn)  
[linkedin.com/in/hngmn](https://linkedin.com/in/hngmn)  
U.S. Citizen

### Coursework (In order)

- Operating Systems
- Algorithms
- Computer Networking
- Databases
- Network Security
- Computer Architecture
- Artificial Intelligence
- Programming Languages
- Formal Languages & Automata
- Compilers

### Languages (Best first)

Java, C/C++, Python,  
Ocaml, Javascript,  
Common Lisp, SQL

### Tools

git, IntelliJ, JProfiler,  
Visual Studio,  
Eclipse+MemoryAnalyzer

### Interests

volleyball, bikes  
(repairing/building/riding),  
hiking, reading, baking,  
guitar, painting

### Education

**UCLA**, *B.S. Computer Science*

*Jun 2018*

### Professional Experience

**Amazon - AWS Support**, *Software Dev Engineer*

*Sep 2018 - Mar 2021*

Internal full-stack service providing an AWS API proxy functionality with builtin security and tool-building platform. Global availability, regional fault-tolerance, used by 10K+ support engineers across AWS for providing external AWS customer support and analytics.

- Rails frontend, Java backend
- Designed and built a new full-stack application for automation and orchestration of a business-critical manual process. React frontend, AWS Lambda+DynamoDB backend.
- Analyzed noisy-neighbor issue and implemented throttling solution

**Amazon - AWS Builder Tools**, *SDE Intern*

*Sep 2017 - Jun 2017*

Internal service fronting a terabyte-scale DynamoDB graph database with gigabyte-scale query result sets.

- Intern Project: Designed+implemented path recording in graph traversal queries.
- Re-engineered BFS traversal mechanism for +15% throughput

**NESL at UCLA**, *Research Assistant*

*Jun 2016 - Apr 2017*

Project Roseline, a custom Linux stack/kernel module (plus user-level applications) providing precision time-synchronization on low-power, networked embedded systems.

- Implemented distributed coordination algorithm using Opensplice's DDS API
- Kernel driver for radio module to enable *ns*-scale hardware time-stamping

### Software Projects

**TCP Subset**, *C++ — CS 118: Networking Fundamentals*

Reliable data transfer and congestion control over UDP.

**MiniJava Compiler**, *Java — CS 132: Compilers*

Java-subset Lexer+Parser+Typechecker+Assembler using the Visitor pattern.

**Arduino Temp+Humidity Monitor**, *C — Personal*

Data collection/visualization using Arduino+peripherals while proofing bread dough.

**Regular Expression Matcher Generator**, *OCaml — Personal*

Matchers for a subset of regular expressions over bit-strings.

### Miscellaneous

**Idea Hacks Hardware Hackathon**

*Jan 2017, Jan 2018*

Helpdd organize and run operations for largest hardware hackathon in CA. Jointly hosted and run by Theta Tau and IEEE at UCLA.

**Read/OC Jr.**

*Sep 2013 - Jun 2014*

Tutored young (3rd-5th grade) ESL (from Korea) students in English and other homework from school to help them succeed.

---