

# MIN JI KIM

---

215-221-4446 | abwmmj0120@gmail.com | [linkedin.com/in/min-ji-kim0120/](https://www.linkedin.com/in/min-ji-kim0120/) | [minjikim0120.com](http://minjikim0120.com)

---

## EDUCATION

**Bachelor of Science**, Electrical and Computer Engineering  
**Carnegie Mellon University**, Pittsburgh, PA

Expected : May 2025

---

## EXPERIENCE

**Mastaj's Orthodontics** | Paid Intern & Mastaj's Orthodontics Staff

Bryn Mawr, PA  
Jun 2020 - July 2020

- Managed real-time treatment for 520+ patients, taking charge of rebonds(bonding brackets to teeth) and reties(replacing rubber bands on brackets)
- Selected as an intern in three rounds of rigorous screening (first time as a high school student)
- Studied to obtain PA radiology qualification.

---

## PROJECTS

### *Customized Linux Shell with Job Control*

- Implemented a robust Linux shell that supports job control, signal handling, and I/O redirection, demonstrating strong process management and signal handling skills.

### *Concurrent Web Proxy with Caching*

- Engineered a multithreaded web proxy server in C, capable of handling concurrent client requests and caching web objects to improve response time and reduce bandwidth usage.

### *Custom Dynamic Memory Allocator*

- Developed a dynamic memory allocator in C, significantly improving memory utilization through advanced heap management and custom allocation strategies.

### *Optimized Cache Memory Systems*

- Designed and implemented a highly efficient cache simulator, analyzing various cache configurations to enhance memory access performance.

### *Min Ji's Sushis Game*

- Created an engaging cooking game with intuitive UI, where players prepare sushi orders, driven by 3000+ lines of well-organized code and OOP for realistic gameplay and strategic depth.

### *Let's K-ook!*

- Conceived and executed a Korean food recipe book application, incorporating recipes, a grocery shopping mini-game, and recipe testing, highlighting exceptional proficiency in delivering high-quality results under extreme time pressure.

### *Microsoft Paint*

- Developed a cutting-edge drawing application in Python with 200+ lines comparable to Microsoft Paint, integrating intricate drawing, filling, and erasing functionalities.

### *Tetris Game*

- Innovated a captivating variation of the classic Tetris game, coding 250+ lines in just one week using Python, re-imagining and modernizing a beloved game with fresh mechanics and engaging gameplay.

---

## SKILLS

- |          |          |
|----------|----------|
| • Python | • HTML   |
| • C      | • CSS    |
| • MATLAB | • NodeJS |

---

## ACTIVITIES

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| • Korean Student Association(KSA) | • Society of Women Engineers(SWE) |
|-----------------------------------|-----------------------------------|