

David Chang

seheon.chang@gmail.com | davidseheonchang.xyz | linkedin.com/in/david-chang | github.com/heon-1219

Education

University of Texas at Austin

Bachelor of Science in Computer Science

Bachelor of Science in Electrical and Computer Engineering

Aug 2023 – Expected May 2028

Austin, TX

GPA: 3.6/4.0

Skills

Programming Languages: ARM Assembly, C, C++, C#, Java, JavaScript, Python, TypeScript

Relevant Tools: .NET, AWS, Django, Docker, Git, Kubernetes, Linux, Next.js, Node.js, PostgreSQL, React, SQLite

Coursework: Computer Architecture, Data Structures and Algorithms, Discrete Math, Embedded Systems, Linear Algebra

Experience

Ajou University School of Medicine

Intern | Clinical AI Research

Jun 2024 – Sep 2024

Suwon, South Korea

- Co-authored **2 SCI-level papers** with **11 citations** by building BERT and GPT-based NLP pipelines for clinical-text analysis.
- Reduced OHDSI's Common Data Model ETL runtime by **23%** by migrating R pipelines to Python and replacing repeated row-wise operations with hash-join-based transformations.

LooxidLabs

Intern | Product Development & Analytics

Jun 2022 – Jan 2023

Seoul, South Korea

- Converted user-research into business-strategy and patent-development for a **CES Innovation Award-winning** VR device.
- Analyzed behavioral and UI/UX feedback from **200+ alpha testers** for a VR mental-health product, identifying usability patterns and product-validation signals.

Projects

Ajou Course Manager | Django, Docker, K8s, React, PDFMiner, PostgreSQL

Oct 2025 – Feb 2026

- Built a production course manager used at a medical school for **100+ courses** used by **40+ professors**, **200+ students**.
- Implemented fully functional DB linked with LLM-assisted automated CRUD workflows and analytics for course operations.

Tessera | ESP32, C/C++, PN532 NFC, PySide6, AES-256-GCM, SQLCipher

Mar 2026 – Present

- Led a team that placed **7th of 650+** in the ROK Army Startup Competition by building an offline EHR dog-tag system.
- Engineered ESP32 firmware to read and decrypt compressed AES-256-GCM records in **under 100 ms**, paired with a PySide6/SQLCipher desktop app for offline serial provisioning.

Sisyphus | C#, .NET 8, WPF, Windows Registry, Windows Internals (IFEO)

Apr 2026 – Present

- Reached **150+ users** with a focus utility that enforces app and website blocking, logs categorized activity, and surfaces AI-generated feedback with reminders and AI-assisted task management. sisyphusfocus.site.
- Engineered a C#/.NET WPF client with near-zero idle CPU usage, Windows Registry/IFEO-based blocking, an installer, and binary-differencing updates for automated client deployment.

Self-Hosted Infrastructure Stack | Docker, Linux, systemd, Tailscale, tmux

Jan 2025 – Present

- Architected and maintained a self-hosted Linux server with reverse proxy, load balancing, and automated deployment infrastructure, serving personal web applications and automated trading systems 24/7.
- Developed a Telegram bot that orchestrates AI coding agents running in persistent tmux sessions, enabling remote monitoring, task delegation, and project management from anywhere.

Leadership & Activities

2nd Infantry Division Sustainment Brigade

BDE UMT KATUSA Sergeant(E-5)

Jun 2025 – Dec 2026

Camp Humphreys, South Korea

- Participated as a researcher at 2ID Warrior Works lab, building internal servers with local AI and autonomous drone systems.
- Provided tactical translation for the United Nations Command during ROK-U.S. combined exercises.
- Earned the **Army Commendation Medal and Army Achievement Medal** for consistent and excellent translation support.

Texas Convergent

IoT Build Team Tech Member

Spring 2024

University of Texas at Austin

- Built an NFC-authenticated alarm system with NFC sticker and software reader, pitched it to **200+ students** and 8VC.

Directed Reading Program

Natural Language Reasoning Team

Spring 2023 – Spring 2024

University of Texas at Austin

- Led weekly reading discussions on CoT and o1-style reasoning papers, **covering 17 papers with UT CS Ph.D. mentorship**.