

Joey Huang

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Education

Temple University

Bachelor of Science in Computer Science - GPA: **3.95**

Philadelphia, PA

Expected May 2026

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Software Design, Database Systems, Machine Learning, Cloud Computing, Deep Learning

Work Experience

Software Engineer Intern

8by8

February 2024 - June 2024

Remote

- Migrated legacy React components to a **Next.js** architecture with **TypeScript**, improving code maintainability and increasing search engine optimization by **20%**.
- Automated pull request validation by implementing unit tests within a GitHub Actions **CI/CD** pipeline, achieving **100%** code coverage.
- Enhanced platform security by integrating Cloudflare Turnstile into authentication **REST APIs**.
- Participated in peer code reviews enforcing SOLID design principles and dependency injection.

Projects

Samplehub | React, Node.js, Express.js, PostgreSQL, Google Cloud Platform

- Collaborated on a **4-person team** to build a full-stack music sample platform that supported **40+** users.
- Led cloud infrastructure on **GCP Compute Engine**, configuring Linux VMs, Nginx reverse proxy, containerization, Firebase authentication, and automated deployments.
- Designed and optimized a **PostgreSQL** database using 3NF normalization and indexing strategies, improving query performance by **50%**.

WebtoonMTL | Python

- Developed an image-to-text neural machine translation system for Korean webtoons by integrating OCR text extraction and transformer models with Hugging Face.
- Fine-tuned and evaluated models on **10K+** parallel text samples, achieving **0.44** BLEU and **0.64** chrF.

Gympal | React Native, Node.js, Express.js, MongoDB

- Developed a mobile fitness application to manage workouts and nutritional data, building RESTful APIs and using a **MongoDB** database.
- Implemented email and password authentication with bcrypt hashing and **JWT** session management.

Sensofocus | Kotlin, Java

- Built a multi-sensor data pipeline for an Android app, applying **low/high-pass filtering** and binary classification to detect motion and noise distractions.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C, SQL, HTML/CSS

Frameworks & Libraries: React, Node.js, Next.js, Express.js, PyTorch

Developer Tools: Git, Linux, PostgreSQL, MongoDB, AWS, Google Cloud Platform, Docker, Vim