Ryan Chung

201-707-8181 | rchung567@gmail.com | linkedin.com/in/ryan-chung-21b37122b/ github.com/ryanchungg

Education

University of Michigan Ann Arbor, MI

Bachelor of Science in Computer Science *May, 2028*

- Relevant Coursework: Data Structures and Algorithms, Web Systems, Computer Organization, Discrete Math, Linear Algebra
- Activities: Michigan Hackers, Michigan Data Science Team, Korean Science Engineering Association

Experience

Software Engineering Intern June 2026 – Aug. 2026

NSOFT Consulting *Englewood Cliffs, NJ*

- Re-engineered legacy **VB.NET** monolithic UI pages into a **modular React/TypeScript** frontend, refactoring legacy logic into a **component-based architecture** to improve system maintainability.
- Spearheaded the adoption of **Claude Code**; architected custom **CLAUDE.MD** files to automate context-sharing and accelerated the React migration.
- Identified root causes of technical issues by writing **SQL** queries to troubleshoot customer-reported data inconsistencies and bugs.
- Collaborated in an **Agile** environment, conducting rigorous **code reviews**, writing **unit tests** to ensure code reliability, and leveraging **GitHub** for version control and team synchronization.

Projects

Document Extraction API | *Python, Supabase, Redis, Docker, Gemini API* Aug. 2026

- Built an API that extracts structured data from PDFs into user-defined JSON schemas
- Handled extraction asynchronously with a Redis-backed job queue, notifying clients of completion via email
- Secured the API with key-based auth, per-client rate limiting, and usage metering

Automated Personal Finance Pipeline | *Python, Docker, GCP, Supabase* Mar. 2026

- Engineered a **data ingestion pipeline** to fetch and parse bank transaction alerts from Gmail, extracting transaction data without a paid banking API
- Implemented automated data extraction via **Gemini API**, using each email's unique message ID to deduplicate entries before transforming raw text into validated, queryable records
- Architected a **serverless Cloud Run orchestration** of a **Dockerized Python** script.
- Orchestrated a secure **CI/CD pipeline** with **GitHub Actions** and **Google Artifact Registry**, managing sensitive environment variables via **Google Secret Manager**.

AI Itinerary & Travel Planner | *React, TypeScript, Supabase Edge Functions, Postgres* Apr. 2025 – Aug. 2025

- Engineered a React application, hosted on Vercel, that generates optimized travel itineraries using the Gemini API that will persist via localStorage
- **Implemented server-side rate limiting** using **IP-based tracking** and request validation to manage API consumption, prevent service abuse, and optimize operational costs.
- Parsed unstructured LLM responses into type-safe TypeScript interfaces for use throughout the frontend.

Freelance Web Development | *HTML, CSS, JavaScript, GitHub Pages* June 2025 – July 2025

- Partnered with local businesses to translate project requirements into functional, responsive, and accessible websites, improving overall user engagement.
- Managed end-to-end deployment on **GitHub Pages**, including custom domain configuration, DNS, and **HTTPS** for secure production access.

Leadership and Extracurriculars

President July 2022 – Aug. 2024

Beyond a Goal (BAG) Non-Profit *Cresskill, NJ*

- Donated 200+ backpacks filled with necessities to 3 homeless shelters in Hoboken and NYC, totaling over $6000

Technical Skills

Languages: Python, TypeScript, JavaScript, C++, C, SQL, HTML/CSS, Assembly
Frameworks & Tools: React, Flask, Docker, Git, GitHub Actions, Linux, REST APIs, HTTP, JSON
Cloud & Databases: GCP, PostgreSQL, Redis, Supabase