Gabriel Ong

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EDUCATION

Rice University – GPA: 3.90/4.0   Houston, TX
Bachelor of Science in Computer Science   Aug 2022 - May 2026
Concurrent Programming, Computer Networks, Compiler Construction, Computer Systems, Program Design, Data
Structures and Algorithms, Machine Learning, Embedded Systems, Probability and Statistics, Linear Algebra

EXPERIENCE

Metric Bionets Group | Rice Lab Using ML and Network Theory to Make Ecological Discoveries   Houston, TX
Machine Learning Researcher   May 2024 - Aug 2024
- Used acoustic analysis to detect human destruction of ecological sites, reducing funding needs of typical analyses
- Built link prediction model with < 1% error using 100,000+ audio samples to analyze ecosystem heterogeneity

RiceApps | Software Consulting @ Rice University, < 5% Acceptance Rate   Houston, TX
Technical Team Lead   Aug 2023 - May 2024
- Addressed the needs of 1M+ residents across 50+ counties in Texas by leading 10+ student developers to build a
  canvassing mobile application for natural disaster readiness

WA State Investment Board | Developed Software to Manage $180+ Billion in Assets   Olympia, WA
Software Developer Intern   Jun 2022 - Jul 2022
- Implemented a scalable tagging system for tagging 5,000+ financial securities, reducing time spent on indexing and
  categorizing assets by 15+ minutes

Trainwell Startup | #1 Remote Personal Training App with $16+ Million in Funding   Pittsburgh, PA
Full Stack Software Developer   Oct 2020 - Jun 2022
- Rebuilt landing page using React, improving performance, accessibility, and SEO by over 50%, contributing to over
  300% increase in client count
- Built web platform to track 50+ metrics for 20+ coaches, reducing query latency by 38% via indexing and filtering
- Reduced time spent by hiring staff by 30+ minutes per new employee by building a web platform for onboarding
- Optimized client scheduling by 5+ minutes by building a Python web scraper to automate coach scheduling

PROJECTS & TEACHING EXPERIENCE

Project - Fylo Photos | Mobile Solution to Photo Sharing   Summer 2023
- Planned and implemented entire database design and backend, including systems for friends and album sharing
- Designed and implemented UI and frontend for capturing photos/videos and uploading them to shared albums

Rice University Teaching Assistant | Instructed 110+ CS/Math Students   Houston, TX
- Intro to Computer Organization, Intro to Data Structures and Algorithms, Intro to CS, Single Variable Calculus 1

SKILLS

Python, Java, TypeScript, C, Go, C#, MongoDB, SQL, GraphQL, React, Node.js, AWS, ASP.NET, Sklearn, Git, Linux