

Raymond Chen

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, Georgia

Graduation: May 2027

- **Concentrations:** Cybersecurity/Privacy – Intelligence
- **Related Coursework:** Computer Networking, System & Networks, Computer Organization & Programming, Introduction to AI, Machine Learning, Data Structures & Algorithms, VIP (Vertically Integrated Project), Design & Algorithm, Computing in Python, Object Oriented Programming, Objects and Design, Discrete Math, Linear Algebra

TECHNICAL SKILLS

- **Programming Language:** Java, Python, C, JavaScript, HTML/CSS, SQL
- **Framework & Tools:** Git, GitHub, API, IntelliJ, Visual Studio Code, Android Studio, PostgreSQL

EXPERIENCE

Sport Oracle – React, Express, PostgreSQL, MongoDB, API, Socket.io, Python, JWT, Cookies

Collaborative Personal Project – Full Stack Developer

July 2025 – Present

- Co-developing the design and development of a full stack web application using **React** and **Express** to predict player's and Team's performance using previous years' stats and **Python-based analysis**
- Implemented secure authentication with **JWT** and **HTTP-only cookies**, and optimizing **PostgreSQL** queries for efficient data retrieval
- Building a real-time chat feature with **Socket.io** with **MongoDB** integration for persistent message history
- Integrating an **AI-powered API** to evaluate player's statistics and recommend the optimal choice

Georgia Institute of Technology VIP – Python, Jupyter Notebook, Pandas, Matplotlib

Vertically Integrated Project – ECG Data Analysis Lead

Spring 2025 – Present

- **Led** a team of **4** in ECG data analysis, coordinating research tasks, data preparation, and review of analytical results using **Jupyter Notebook**
- Computed **BPM, HRV, and RMSSD** metrics from raw ECG-derived data and visualized results using **Python, Pandas, and Matplotlib** for **20 participants**
- Compared device-reported heart rate values with independently computed BPM, observing **98% agreement** across participant data

Chopsticks China Bistro

Cashier, IT Support

April 2019 – Present

- Resolved technical issues relating to system update, Wi-Fi and printer troubleshooting, **reducing downtime** and **minimizing reliance** on external IT support
- Provide customer service, helping an average of **30+** customers per shift with order placement and resolving any issues with orders or complaints
- Improved delivery efficiency during peak hours by managing driver routes, optimizing order grouping, and prioritizing deliveries, resulting in smoother and faster delivery times for customers

WanderSync – Java (Android SDK), Firebase, Android Studio

Collaborative School Project – Android App Developer

August 2024 – December 2024

- Designed and created an Android App using **Java** and **Firebase** to help users plan trips, managing dining reservations, accommodations, and vacations days, which has been used by **20+** Georgia Tech students
- Collaborated with a team of **3 backend developers** using Java to integrate Firebase for real-time database management to allow accurate tracking of reservation and accommodation
- Developed and implemented a user-friendly interface that allows users to efficiently manage **over dozens** of trips