

# Jonathan Chen

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📍 Ithaca, NY

## EDUCATION

### Cornell University

Aug 2022 — May 2026

Bachelor's in Computer Science, Minor in Statistics

GPA: 3.95/4.0

**Relevant Coursework:** Analysis of Algorithms, Computer Networks, Machine Learning, Computer Systems, Robot Learning, Database Systems, Computer Vision, Computational Genomics, Data Structures

## EXPERIENCE

### Oracle

May 2024 — Present

Software Engineer Intern

Austin, TX

- Replaced costly manual data entry for onboarding new hotel chains with automated processes by designing CakePHP RESTful API to authenticate and provision hotel properties in the OPERA Cloud backend
- Developed contactless check-in features with PL/SQL and Oracle Database for hotel management app
- Removed 80% of manual effort by creating Python microservice for attaching digital signatures to reservations
- Implemented OAuth integrations with identity providers to authorize API calls between Oracle OCI services

### Intellian Technologies

May 2023 — May 2024

Software Engineer Intern

Rockville, MD

- Led web application development of unit reservation system built with React, Flask, Docker, and MongoDB
- Developed and deployed Python packages for collecting performance metrics from satellite user terminal data
- Increased data throughput by 500% for a log aggregation system using InfluxDB database, Flask, and Grafana

### Cornell University

Aug 2023 — May 2024

Teaching Assistant

Ithaca, NY

- Held discussions and office hours, grade assignments, proctor exams, and assist with course administration

## PROJECTS

### Ithaca Transit | *Android, Kotlin, Jetpack Compose*

- Led Android mobile application development for a route planning mobile app with Kotlin and Jetpack Compose
- Developed features for real-time bus location tracking using Google Maps API and GTFS data

### Deep Q-Learning Algorithm on Space Invaders | *Python, PyTorch*

- Preprocessed 450 trajectories of image data from human players to train a behavior cloning model
- Built a Q-Learning neural network algorithm to improve agent performance in stochastic Space Invaders

### Simulating Evolving Artificial Life | *Java, JavaFX*

- Developed the recursive descent parser and interpreter in Java for a unique "critter" programming language
- Led a team in architecting simulation software with evolving "critter" programs through random mutations

### Playlistle | *JavaScript, HTML, CSS, Python, Django, PostgreSQL, Docker*

- Built daily song-guessing game with Docker, Django, Spotify API, and PostgreSQL to store archived games
- Configured networking with a cloud VPS and Nginx reverse proxy, delivering to 20+ users on the internet

## ACTIVITIES

### Cornell AppDev

Sep 2023 — Present

Android Developer, Course Instructor

Ithaca, NY

- Deliver lectures as instructor for CS 1998: Android Development and mentor student mobile app developers
- Contribute to design and implementation of Android apps catered toward the Cornell and Ithaca community

### IBM

June 2024 — July 2024

Accelerate Program Research Track

Remote

## SKILLS

**Languages:** Python, Java, Kotlin, C, C++, PHP, OCaml, TypeScript, JavaScript, HTML, CSS, SQL

**Libraries and Frameworks:** Android, React, React Native, Node.js, Django, Flask, PyTorch, CakePHP

**Tools and Software:** Gradle, Git, Linux, Nginx, Grafana, InfluxDB, Docker, MongoDB, PostgreSQL