

Daniel Ozkan

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EDUCATION

Rutgers University - New Brunswick, NJ

August 2021 – May 2025

Bachelor of Arts in Computer Science

- Relevant Coursework: Algorithms, Software Methodology, Systems Programming, Computer Architecture, Data Management for Data Science, Functional Programming, Internet Technology, Discrete Probability, Math Reasoning
- Relevant Clubs: COGS, USACS

PROJECTS

Rabonit Soccer App

May 2026 – Present

- Contributing to a soccer-focused mobile app by building backend and map-based Explore functionality using **AWS Lambda, API Gateway, Auth0, and PostgreSQL/RDS**.
- Designed and implemented database-backed location flows for soccer pitches, including normalized **places** and **pitch reviews** tables and area-based caching for fast map reads.
- Integrated **OpenStreetMap** data into the product pipeline by researching Nominatim/Overpass usage, importing pitch data, and supporting map search and nearby pitch retrieval for the Explore page.
- Worked on frontend-backend connection patterns for app features, including authenticated API flows, geocoded search, and map-based retrieval of nearby pitches for a Swift mobile interface.

HTTP Server with Cookie-Based Authentication

March 2025 – April 2025

- Built a Python HTTP server using raw sockets to accept client connections, parse HTTP requests, and serve dynamic HTML responses.
- Implemented cookie-based authentication and **3 core session flows**—login, authenticated access, and logout—enabling secure access to protected user data.
- Developed request parsing for headers, cookies, and POST form data, supporting end-to-end user authentication and session tracking.

Distributed DNS Resolver in Python

February 2025 – March 2025

- Built a distributed DNS resolver in Python with **4 communicating components**: a client, a root server, and **2 TLD servers** for **.com** and **.edu**.
- Implemented iterative and recursive resolution, enabling domain queries to be routed across multiple servers and resolved to IP addresses.
- Designed a custom DNS-style messaging protocol with identifiers and response flags to support referrals, authoritative answers, and failed lookups.

RU-Clinic

September 2024 – November 2024

- Developed a desktop clinic scheduling application in Java and JavaFX to manage patient appointments through a graphical interface.
- Implemented scheduling logic to prevent overlapping appointments for the same doctor or room using a circular list data structure.
- Built GUI workflows for adding, viewing, and updating appointments in a window-based system.
- Collaborated with a partner to divide development tasks across interface and scheduling functionality.

EXPERIENCE

Computer Science Instructor

Oct 2025 – Present

theCoderSchool Berkeley Heights — Letter of Recommendation

Berkeley Heights, NJ

- Teach children ages 6–13 coding languages such as Python, Java, PixelPad, and Scratch through project-based lessons.
- Guide students in understanding core programming concepts and staying engaged with assignments.

Shadow/Counselor

June 2025 – August 2025

Kaplan JCC on the Palisades

Tenafly, NJ

- Monitored and redirected two second graders with special needs in an integrated summer camp setting.
- Supervised the Science Camp group and encouraged participation in activities including robotics.

Counselor

November 2024 – May 2025

Rutgers Preparatory School

Somerset, NJ

- Supervised middle school students after school with 1–3 co-workers in locations including the gym, outdoors, and common areas.
- Tracked student whereabouts, engaged with students, and addressed behavior issues when needed.
- Communicated with parents and guardians during student pickup.

SKILLS

Languages: C, HTML, Java, JavaScript, LaTeX, PHP, Python, SQL, Swift

Tools: AWS Lambda, Amazon API Gateway, Auth0, Git, GitHub, Ghidra, MapLibre, MySQL, NumPy, OpenStreetMap, Overpass API, Nominatim, pandas, PostgreSQL, Terminal, VS Code, Xcode