Chase Reynders

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Summary

Team-oriented, motivated Computer Science undergraduate seeking to forge connections, strengthen development skills, and embrace challenges in a fast-paced, uplifting environment. Interested in project-based learning, human-oriented technology, and interdisciplinary approaches to problem solving. Passionate about learning languages, funk drumming, and baking birthday cakes.

Education

- **Yale University** Expected Graduation May 2026
  Bachelor's Degree in Computer Science & Psychology, Certificate in Statistics and Data Science, GPA of 3.97 *New Haven, CT*
  - Teaching assistant for *Data Structures and Programming Techniques* (taught in C programming language) and *Introduction to Computing and Programming* (known as *CS50*)
  - Drummer and board member of the Yale Undergraduate Jazz Collective; opened for Grammy-award-winning jazz vocalist Cécile McLorin Salvant
  - Executive board member of the Yale Computer Society; led curriculum development for the *Catalyst Program* and oversaw full-stack projects including Yale Butteries

Experience

- **Twilio** May 2025 – Present
  Software Engineer Intern *Remote*
  - Implemented an idempotency cache in a large-scale, cloud-based distributed system that processes over 3 billion of events daily, resolving a bug that caused inaccurate contact counts
  - Participated in Agile sprints and reviewing code from senior engineers, learning team conventions and contributing to overall code quality in a CI/CD framework
  - Discovered and squashed critical bug in CI/CD production deployment automation pipeline to make deployment processes more resilient and robust
- **DeepHealth, a RadNet subsidiary** Mar 2024 – Aug 2024
  Software Engineering and Data Science Intern *Somerville, MA*
  - Increased search efficacy of FDA databases over 95% by parsing 150,000+ scraped PDFs into indexed text, enabling company researchers to have a better understanding of competitors' products
  - Extracted diagnoses from radiologist reports using natural language processing techniques with 100% testing sensitivity to automate ground truth labeling efforts and presented findings to company executives. Medical data security and safety prioritized throughout the process
- **Code Platoon** June 2023 – Aug 2023
  Full Stack Instructor *Chicago, IL*
  - Taught algorithms, data structures, React, and Django to over 40 U.S. military veterans and spouses, enabling their success in the tech industry
  - Led collaborative group coding projects to completion 3 days a week and held office hours for 18 hours a week
  - Co-advised over 40 full stack final projects deployed with AWS EC2 that demonstrated the students' newly attained skills

Technical Skills

- **Languages**: Go, Swift, Python, Java, C/C++, SQL, JavaScript/TypeScript, R, MATLAB, Racket
- **Libraries & Tools**: Terraform, AWS, Git, Docker, NumPy, Pandas, Scikit-learn, PyTorch, React, NodeJS, Flask, Django, Selenium, Twilio, Firebase, PostgreSQL

Projects

- **The Scroll Toll** December 2024 – Present
  Early-Stage Non-Profit Startup Co-Founder *Python (Django), TypeScript (React Native), Swift*
  - Leading development on Gen Z-focused app encouraging mindful screen time habits
  - Designed with Figma, featuring Stripe integration, iOS Screentime API, RESTful API design, relational database design, and token authentication
- **EJ Marey-inspired Amtrak Train Data Visualization Website** November 2024 – Present
  Full Stack Project — amtraklive.com *Python (Flask), R (ggplot2), JavaScript (React)*
  - Published a dynamic data visualization website of Amtrak's northeast regional train corridor to visualize train routes in live time.
  - Deployed an API on AWS EC2 instance to automate *R* scripts and dynamically scrape Amtrak websites every minute.
- **Yale Butteries** Jan 2024 – Present
  Student App Published on App Store *JavaScript (React), Express.js*
  - Co-developed a food-ordering and accounting app for student-run campus restaurants; deployed to the App Store
  - Led frontend efforts and guided weekly team meetings to refine features and user experience
- **PuppyFinder** Mar 2024 – May 2024
  Deep Learning Project *Python, PyTorch*
  - Trained convolutional neural network with thousands of pre-processed dog images from 100+ breeds
  - Developed a model with over 94% classification accuracy, leveraging stochastic gradient descent and the cross entropy loss function