RYAN OET

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ACADEMICS

- **Master's Degree in Computer Science, Princeton University, Princeton, NJ**   **Spring 2026**
- **Bachelor's Degree, Swarthmore College, Swarthmore, PA**   Spring 2024
  - Computer Science Major, Psychology Minor, 3.8 GPA
- **Relevant Coursework:**
  - Algorithms, Social and Crowd Computing, Game Systems, Human Computer Interaction, Software Engineering, Natural Language Processing, Intro to Computer Systems, Data Structures and Algorithms
  - Several Variable Calculus, Linear Algebra, Discrete Mathematics
- **Skills:** Java, Python, Git, .NET (C#, Blazor), HTML/CSS, JavaScript, Flask, C++, SQL

SOFTWARE ENGINEERING EXPERIENCE

- **Intern at Ascensus, Developer on TeamWorks Web Application**   Summer 2024
  - Lead front-end development of TeamWorks, a continuously-integrated continuously-deployed (CI/CD) web application for internal use at Ascensus that allows leadership to view, manage, and update information and relationships between associates, teams, and other company resources using Blazor, C#, and .NET
  - Collaborated on design and implementation of the TeamWorks API and the TeamWorks SQL database using C#, .NET, and SQL
  - Worked closely with product owners to manage the project Scrum board, receive feedback, and guide future goals and directions of development
- **Lead Developer of PetitionBot, Mastodon-Integrated Web Application**   Fall 2023
  - Lead full-stack development of a web application using Flask, Jinja, SQL Alchemy, Mastodon's API, and Scikit-learn
  - Researched, designed, and implemented the database, connection to the API, and content-based recommendation system of user-submitted petitions
- **Software Engineer & Researcher for Algoart.org**   Summer 2023
  - Developed an API for scheduling server-side image generation of algorithmic artwork
  - Designed client-side web pages and server-side database architecture
  - Collaborated on design of user interfaces
- **Developer on AVL Tree Animated Visualization Tool Web Application**   Fall 2022
  - Co-developed educational web application and animated visualization tool
  - Implemented AVL tree data structure and wrote educational content

COMPUTER SCIENCE RESEARCH EXPERIENCE

- ***You and Your Baby* Application Evaluation at University of Cape Town**   Spring 2023
  - Measured usage of a mobile and web app co-designed with an NGO in South Africa
  - Conducted user interviews, created list of recommendations for future developers, and compiled results into 30-page paper
- **Research Assistant for Northeastern University, Diplomacy Lab Disinformation Project, Boston, MA**   Summer 2022
  - Constructed a custom dictionary for measuring trust to be used for natural language processing (NLP) sentiment analysis and association mining
  - Collected millions of tweets, then extracted, transformed, and loaded (ETL) those tweets into organized CSV files
  - Created animated visualization of tweets per location over time
- **Teaching Assistant, Department of Computer Science, Swarthmore College**   Fall 2021
  - Ran weekly study sessions in C/C++ and assisted students with debugging code   - Fall 2022

OTHER EXPERIENCE

- **Panelist on *Inclusive Models for CS & Game Design Education* at ISTELive 23**   Summer 2023
  - Discussed tools and practices for STEM educators that support LGBTQ+ students and those from underrepresented-in-tech genders