

DAVID NATHANSON

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EDUCATION

University of Richmond, Richmond, VA

Expected Graduation, May 2028

Bachelor of Science: Computer Science, Mathematics | GPA: 4.0

Relevant Coursework: Introduction to Computing, Data Structures, Discrete Structures, Calculus 1 & 2

AWARDS & HONORS

- Winner of WWDC Scholarship '22 (Top 10% of 3000+ Global Contestants) in Swift Student Challenge by Apple.
- Silver Medal at Indonesia's Youth International Science Fair for NLP chatbot (673 Teams from 23 Countries).
- 1st Runner-Up (of 250+ Teams) at Science & Technology Idea Contest for Non-Invasive Blood Sugar Reader.
- 1st Place Winner at the University of Richmond Capture The Flag (Fall 2024) Sponsored by Assura Inc.

SKILLS

- **Languages:** Python, Java, Swift, C
- **Libraries & Frameworks:** scikit-learn, matplotlib, numpy, pandas, TensorFlow, Django, Flask, HTML, CSS, React
- **Tools & Platforms:** Arduino, GitHub, VS Code, Xcode, Linux, Notion, Google Workspace, Adobe Creative Cloud

PROJECTS

SierraAI, Richmond, VA

[GitHub](#)

Co-Founder & Software Developer

- Create a Discord Bot for the University of Richmond's Server of 300+ users to provide real-time answers to questions regarding faculty, campus life, etc., utilizing Gemini API & Retrieval-Augmented Generation.
- Scrape the University's website of 14+ million characters using a combination of BeautifulSoup and Selenium.
- Leverage Flask & NodeJS to manage a scalable backend infrastructure & optimize user experience.

UnWastelt, Chiang Mai, Thailand

Software Developer

- Developed a Swift app to reduce food waste by tracking expiration dates and suggesting meals using over eight initial built-in ingredients; integrated a social media feature to inspire creative, waste-reducing recipes.
- Implemented a text-to-speech feature and tested five different minimalistic user interfaces, ensuring a streamlined and intuitive user experience for accessibility.
- Received WWDC Scholarship recognition for innovation in tackling environmental sustainability issues.

ACTIVITIES AND LEADERSHIP

Academic Ambassadors Club, Chiang Mai, Thailand

August 2023 - March 2024

Head of Technical Department

- Led a technical team of four members in organizing STEM and Social Studies events on- and off-campus.
- Filmed and edited five event videos for educational purposes, allocating Audio/Video work among team members and enhancing productivity using Notion & Google Workspace.
- Gained leadership, technical, and video editing skills and managed the club's Instagram and Facebook accounts, achieving 2,000+ views and enhancing community engagement and event visibility.