

Robert Dubel

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Education

Northeastern University, *Khoury College of Computer Science* Sep. 2020 – Aug. 2023

B.S. in Computer Science and Philosophy

GPA: 3.6/4.0 | Relevant coursework: Software Engineering, Database Design, Object-Oriented Design, Algorithms, Logic & Computation, Data Science, Discrete Math, CS Fundamentals I-II, Human-Computer Interaction

University of Wisconsin-Madison, *Honors College of Letters & Sciences* Sep. 2019 – May 2020

GPA: 3.7/4.0 | Relevant coursework: Multivariable Calculus, Industrial-Systems Eng., Java I-II, Physics, Chemistry

Software Skills

Proficient: Java, Racket (Lisp) | Prior experience: AWS, Python, SQL, JavaScript, React, GraphQL, CSS, Git, Pandas

Experience

Full Stack Software Developer, Ray Analytics – Washington, DC (full-time, remote) May 2022 – Dec. 2022

- Co-developed a political discourse analysis tool using Next JS, Chakra UI, Vis.js, and AWS Amplify
- Built a serverless data pipeline with Python AWS API, Pandas, GraphQL, and integrated 2 third-party APIs
- Reverse-engineered a paid Twitter analysis service in Python, cutting query return time from 8 hrs. to 15 mins
- Pitched product to 3 clients and investors for seed funding
- Implemented CI/CD pipeline with AWS CodePipeline, CodeDeploy, S3, PyTest, and GitHub actions

Software Engineer, Generate NU– Boston, MA (part-time) Sep. 2022 – Dec. 2022

- Researched context-specific sentiment analysis using Large Language Models (GPT3, Bloom) for a student-led mental health startup
- Scraped 15,000 data points daily using the Reddit API to test model effectiveness on a novel dataset
- Developed a database to integrate multiple data sources using Pandas, Bloom, and Reddit APIs

Software Trainer, University of Wisconsin-Madison – Madison, WI Sep. 2019 – Jan. 2022

- Taught biweekly night classes on Java, Python, and Excel to over 40 university faculty and 100+ students
- Provided 1-on-1 tutoring to 13 students in Python and Java fundamentals and Excel data analysis/visualization
- Wrote and published new curriculum for coding fundamentals and Adobe Photoshop courses

President, NUHOC (NU Huskiers & Outing Club) – Boston, MA Jan. 2022 – Sep. 2022

- Orchestrated 4-day Acadia National Park trip for 100 Northeastern students including transportation, meals, gear, and 6-8 expeditions daily, finishing 8% under \$25,000 trip budget
- Built a committee that organized over 50 day trips introducing students to the New England outdoors
- Led a board of 18 students to run 28 overnight trips; ran weekly meetings and oversaw all club operations

Projects

Coworking UNO (Software Design final group project) Mar. 2023 – May 2023

- Implemented an online UNO game supporting 2-12 players in real-time using Typescript and React
- Developed and executed 500+ Jest unit tests while establishing a robust code deployment pipeline utilizing Heroku and GitHub Actions.
- Successfully managed 10 weeks of tasks for 4-person team in Jira, delivering all major features as scheduled

Easy Animator (Object-Oriented Design final project) Apr. 2022 – May 2022

- Developed a Java application to convert human-readable input into animated SVGs
- Built a GUI using JFrame to enable real-time rendering and editing of animations and full playback control