Ayden Diel

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Skills

Programming Languages:	JavaScript, Python, TypeScript, Node.js, HTML, CSS, Java, C, OCaml
Libraries/Tools/Databases:	Git, React, Bootstrap, Express, Linux/Unix, MongoDB, Docker, Bash, Pandas, Flask, Leaflet, Next.js, Socket.io, Azure, Google Cloud

Work Experience

Full-Stack Engineer - *DataNext Solutions / Megaship.ai*   Chicago, IL (Remote)
- Implemented authentication system with email verification using next-auth, AWS   Apr 2024 - Current
SESClient, MongoDB, and EJS for a user-friendly sign-up and login process   https://datanextsolutions.com/
- Built a project monitoring dashboard using TypeScript, React, and Chart.js, allowing   https://www.megaship.ai/
users to see real-time data visualizations of their projects' performance

Coding AI Trainer and Interviewer - *Scale AI / Remotasks*   San Francisco, CA (Remote)
- Debugged and fixed hundreds of code snippets written by LLMs and humans using   Jan 2024 - Apr 2024
Python, Pandas, JavaScript, Node.js, C, and Bash resulting in a 5/5 quality score   https://scale.com/
- Created a script to automate the renaming uploading of interview recordings using
Python and Argparse saving ~5 minutes for each recording uploaded
- Conducted over 100 technical interviews for AI Coding Expert candidates

Software Engineer Intern / Research Assistant - *UMass Boston*   Boston, MA
Ported state management library from Racket to JavaScript for student use   Dec 2023 - Jan 2024
- Wrote documentation using JSDoc, resulting in coverage of 100% of the library   NPM Package
- Published package on NPM and produced multiple example programs   Github repo
Investigated symbolic execution and presented findings to CS research lab
- Implemented a working symbolic execution engine using OCaml

Software Engineer Intern - *PressKit.ai*   New York, NY (Remote)
- Built out essential frontend features using JavaScript, HTML, CSS, and Bootstrap,   Sep 2023 - Dec 2023
which were used by several paying teams to access and share our data   https://www.presskit.ai/
- Developed a web scraper to keep track of the accuracy of our data using Python,
Selenium, and MongoDB, automating part of the data upkeep process

Software Engineer Intern / Research Assistant - *UMass Boston*   Boston, MA
Contributed to development of Racket to JavaScript compiler, "RacketScript":   Jun 2023 - Sep 2023
- Implemented and documented compatible distributed programs library   http://play.racketscript.org/
- Reducing verbosity of React wrapper by 40% by adding a syntax macro   Github repo
- Improving online playground by adding several examples, removing all jQuery
usage, migrating from Bootstrap 3 to 5, updating Dockerfile to use best practices

Projects

QR Pigeon - *Fast online file-transfer tool using QR codes*   https://qrpigeon.pics/
- Implemented and deployed this open-source and free file transfer tool using Python, Flask,   Github repo
JavaScript, and Azure, resulting in a total of 370 uses so far (there's a live count on the website)
- Built a CI/CD pipeline using Github actions and bash, resulting in 100% automated deployment

Education

University of Massachusetts Boston   Boston, MA
BS Computer Science *GPA: 3.85*   Sep 2022 - Dec 2025

Community Involvement

Club President - UMass Boston Computer Science Club   2022 onward
Conducted over 50 weekly meetings. Organized guest speakers from Google and Microsoft. Built
relationships with organizations including Granite Telecom and Boston Venture Studio.