KEVIN STEWART-MERCURIO

Software Developer

✉ kevinstewartmercurio@gmail.com   kevinstewartmercurio
🌐 www.kevinstewartmercurio.com   in kevin-stewart-mercurio

EDUCATION

Swarthmore College, Swarthmore, PA   **Sep 2018 - May 2022**
Bachelor of Arts, Double Major in Computer Science and Mathematics

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Theory of Computation Algorithms, Compilers, Natural Language Processing

EXPERIENCE

Junior Software Developer, Actual Size   **Mar 2024 - Present**
- Collaborated with cross-functional teams to deliver high-quality web applications on schedule.
- Optimized websites for responsiveness, speed, and accessibility.

Freelance Developer, ns.studio   **Mar 2023**
- Authored a detailed onboarding guide, resulting in enhanced user understanding.
- Designed a responsive front-end interface, positively impacting site navigation and user interactions.

Mathematics Research Assistant, Swarthmore College   **Jun 2021 - Aug 2021**
- Engaged in efforts to conceptualize and extend the card game SET into higher dimensions.
- Analyzed the algebraic structures and combinatorics embedded within the card game SET.

PROJECTS

YouDoSudoku API, *Sudoku REST API*   ⓘ https://youdosudoku.com **Nov 2023**
- Engineered a REST API, granting developers seamless access to over 200 billion Sudoku puzzles.
- Enhanced data transfer efficiency by reducing JSON response size by 80%, outperforming existing solutions and maintaining the integrity of transmitted information.
Utilized: Next.js, Tailwind CSS, TypeScript, Redux, Git, Vercel

FriendsPSL, *community tool*   ⓘ https://friendspsl.com **Jun 2023**
- Developed a dedicated tool empowering over 2000 participants in an Ultimate Frisbee league to effortlessly coordinate their game schedules alongside those of their friends.
- Demonstrated understanding of user requirements by identifying and resolving scheduling challenges.
Utilized: Next.js, Tailwind CSS, TypeScript, Redux, Git, Vercel

Bird Compiler, *Compilers coursework*   **Feb 2022 - May 2022**
- Engineered a compiler to achieve specified functionality, contributing to the language's capabilities.
- Systematically addressed and resolved issues in Intel x86 Assembly code through routine debugging practices.
Utilized: OCaml, Intel x86 Assembly, C, GDB, Git

Word Embedding Bias Evaluation, *NLP coursework*   **Sep 2020 - Dec 2020**
- Conducted an in-depth analysis of the RAN-Debiasing algorithm, specifically crafted to assess gender bias within word embeddings.
- Evaluated the efficiency of a comparable approach in measuring racial and religious biases, contributing to the exploration of bias detection methods.
Utilized: Python, Git

SKILLS

Technical: HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind CSS, MongoDB, Redux, Python C, C++, Git, OCaml, LaTeX