David Shabo

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Technical Skills

Languages: TypeScript, Python, JavaScript, Java, C, SQL, HTML/CSS
Libraries: NEAT, React, ThreeJS
Tools and Platforms: Visual Studio Code, Git, Docker
Frameworks and Libraries: Angular, React, NEAT
Methodologies: Agile, Object-Oriented Programming (OOP), Model-View-Controller (MVC)

Work Experience

Rocket Studio Innovation   Windsor, ON
Full Stack Developer - Intern   2024 Summer Intern

- **Spearheaded comprehensive code refactoring efforts**, significantly reducing technical debt and optimizing performance to ensure long-term application scalability.
- **Discovered, troubleshot, and resolved over 15 critical front-end and back-end bugs**, boosting site responsiveness and reducing downtime.
- **Demonstrated adaptability in fast-paced Agile environments**, consistently delivering high-quality code, meeting tight deadlines, and adhering to best practices.
- **Actively participated in Agile ceremonies** (sprint planning, stand-ups, retrospectives).
- **Led the development and debugging of a full-stack React system** (Next.js + TypeScript) for company-wide interview scheduling, independently resolving complex issues for a seamless user experience.

Tech-Genie   Windsor, ON
IT Technician   September 2023 - January 2024

- **Effectively diagnosed and resolved hardware problems** for more than 10 clients, ensuring that computers run at peak performance.
- **Expertly leveraged platforms** like Facebook Marketplace and Kijiji to actively seek out clients while also offering incentives for word of mouth referrals.
- Delivered prompt solutions to clients' needs and requests through **effective and positive communication**, which included providing impactful tips to prevent future issues.

Projects

Full Stack Password Manager *React, Python, JavaScript, SQL, HTML/CSS*

- Developed a secure password management application.
- **Integrated a user-friendly front end** using JavaScript, HTML, and React.
- **Implemented a Python back end** with hashed authentication and encrypted user credentials for improved security.
- **Utilized PostgreSQL databases** for efficient storage and retrieval of user information, prioritizing both functionality and security measures.

AI-Powered Dino Runner *Python, NEAT*

- Designed and implemented an AI using NEAT algorithms to **autonomously** play the Chrome Dino game.
- **Implemented machine learning** to evolve game strategies and improve performance.
- **Applied neural networks and genetic algorithms** to demonstrate AI-driven gameplay.

Extracurricular Involvement

Tutor, *United Way*

- **Provided personalized tutoring** to high school students, improving their understanding of key concepts and problem solving skills.
- **Delivered over 150 hours of one-on-one tutoring**, tailoring sessions to the needs and learning habits of the students.

International Collegiate Programming Contest

- **Demonstrated strong problem-solving skills** by competing in a highly competitive coding environment, showcasing my ability to think critically and creatively under pressure.
- **Effectively communicated and shared coding insights** with teammates, fostering a collaborative atmosphere.

Education

University of Windsor   Windsor, ON
Bachelor of Computer Science (Honours), Artificial Intelligence Specialization   4th Year