

ELENA PARAPOUNSKY

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EDUCATION

Oregon State University

Corvallis, OR

Bachelor of Science in Computer Science | GPA: 3.98/4.00

June 2025

PROJECT EXPERIENCE

Atomic Chess Game ([Python](#) & [JavaScript](#))

July 2025 - Present

- Built an atomic chess game for multiple environments, creating an interactive desktop application with Python/Tkinter and a web-based version using JavaScript.
- Implemented custom game rules, move validation, turn logic, and explosion-based capture mechanics with object-oriented design principles.
- Created responsive interfaces with intuitive piece movement, visual feedback, and game state management using both Tkinter and CSS/DOM manipulation.

[Infinite Story Generator](#)

March 2025 – Present

- Designed and implemented a full-stack web app using React and JavaScript, with a Node.js/Express.js backend, using a RESTful API architecture.
- Integrated the OpenAI GPT and DALL-E APIs, managed prompt history to preserve narrative context, and delivered real-time text and image generation with error and rate-limit handling.
- Deployed the web app on Railway with an automated CI/CD pipeline through GitHub integration and configured environment variables.

[Small Shell](#)

Jan 2025 – March 2025

- Developed a custom shell in C with support for built-in commands and external commands, I/O redirection, background process management, and signal handling.
- Applied systems programming concepts including process control, file descriptors, and signal registration to implement robust command parsing and execution logic.
- Automated build process with a portable bash script and maintained clean, modular code structure across multiple source files.

SKILLS

- **Languages:** Python, C/C++, JavaScript, HTML/CSS, bash, SQL, x86 Assembly
- **Frameworks:** React, Node, Express, Jest, Vite
- **Tools:** Git, VS Code, Visual Studio, PyCharm, Eclipse CDT, MariaDB, MongoDB, Figma
- **Platforms:** Windows, Mac, Linux

RELEVANT COURSEWORK

Data Structures & Algorithms, Computer Architecture & Assembly Language, Web Development, Databases, Operating Systems, Usability Engineering, Software Engineering, Parallel Programming, etc.