

# Anton Panfilenok

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## PROFESSIONAL EXPERIENCE

### Full-Stack Web Developer & UX Researcher | *React, Koa, PostgreSQL, Stripe*

July 2024 – Present

*TicketRebel*

*Vancouver, BC*

- Building an **event ticketing website** catering to **entry-level event hosts**.
- Conducting **UX research** by **interviewing** and **distributing questionnaires** to members of the **target user base** to develop a **friendly user journey** and make **informed decisions on MVP requirements**.
- Designing an **event-sourcing based database** comprised of **WAL-based persistent storage** and **unlogged projection tables** to ensure **transactional integrity**, enable **state reconstruction**, and allow for **low-latency operations**.

### Web Developer | *React, MUI, React-To-PDF*

Jul. 2024 – Oct. 2024

*Solstice Design*

*Vancouver, BC*

- Built a **PDF invoice generator** using React, MUI, and React-To-PDF to **automate customer billing, increasing efficiency** throughout the billing process.
- Attended meetings with the program director to facilitate clear communication, ensuring alignment between customer needs and project results.
- Assisted with **webpage layout, color schemes**, and overall **design** as a consultant, **improving customer satisfaction** with webpage interfaces.

### Junior Web Developer | *React, Selenium, ChatGPT*

Oct. 2021 – Sept. 2023

*SpeakWeb Inc.*

*Vancouver, BC*

- Built an **AI-integration extension for VS Code** as an internal tool (before the release of similar tools), enabling team members to receive **contextual advice** and **in-place code edits** via ChatGPT API calls, with support for **automated file and code snippet transmission** based on relevance and dependency, with support for manual user selection.
- Created a **web-based educational game** that leverages **ChatGPT** to guide users through **test-based code modification**, helping them develop more effective prompting skills through interactive challenges and feedback loops.
- Developed a **message service comparison site** using the **JaneApp API** and **Selenium**-based web scraping, implementing automated **data filtering and normalization** and **adaptive scraping logic** to support long-term maintainability.

## PROJECTS

### Virtual Floorplan Pathfinding Robot | *Python, Tkinter, PIL*

Dec. 2023 – Present

- Developed a **visual floorplan** and **pathfinding simulation program**, applying pre-existing solutions and algorithms to maximize focus on innovation.
- Implemented an **image-based floorplan generation system, collision integration**, and an **octo-directional LIDAR system** to accurately simulate real-world situations.
- Researched **optimal pathfinding strategies and algorithms** through testing and data-collection in the floorplan simulator to maximize **pathing efficiency**.
- Implemented **floorplan movement**, controllable by both **user inputs** and **pathfinding algorithms** to allow for greater flexibility in robot movement.

## SKILLS

**Languages:** JavaScript/TypeScript, HTML/CSS, PostgreSQL, Python, C++

**Frameworks:** React, Material-UI, Koa

**Libraries:** AJV, OpenAPI/OAS3, Stripe, Selenium, Leaflet, DayJS, Formik, Yup, DiscordJS, ChatGPT

**Developer Tools:** Git/Github, Docker, WebStorm, CLion, Visual Studio, MATLAB

## EDUCATION

### Simon Fraser University

Vancouver, BC

*Bachelor of Applied Sciences in Computing Science - 3.25 GPA*

*Jan. 2024 – Present*

### Douglas College

Vancouver, BC

*Certificate of Computing Science - 3.74 GPA*

*Feb. 2020 - Feb. 2021*