

# Avital Palchik

[avitalpal.netlify.app](https://avitalpal.netlify.app)[linkedin.com/in/avital-palchik](https://linkedin.com/in/avital-palchik)[github.com/avitalpal](https://github.com/avitalpal)

## SKILLS

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**Languages:** JavaScript, TypeScript, Python, C++, HTML/CSS | **Frameworks:** React, Next.js, Node.js, Tailwind CSS  
**Tools:** Git, Azure DevOps, Playwright, Cypress, Figma | **Focus Areas:** Frontend development, accessibility

## PROFESSIONAL EXPERIENCE

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### AGF INVESTMENTS INC. - Junior Web Developer

May - Aug 2024, Jan 2026 - Present

- Engineered **34** frontend fixes to **production**, addressing page translations, visual layout bugs, and performance issues; improved page load times by up to **84%** through API optimization and image handling
- Delivered **3 production-ready frontend demos** (Tailwind CSS, Foundation, Bootstrap) to evaluate framework suitability for a **full website rebuild**; led testing and recommended Tailwind as the standardized framework
- Managed project** to integrate developer JavaScript code with Cascade CMS using Azure DevOps, enabling non-technical stakeholders to perform mass website updates from a **secure, centralized source**

### PLOOTO - Software Development Engineer in Test

Jan - Apr 2025

- Automated **90+ test cases** using **Playwright** for React-based workflows; created 14 reusable fixture templates that reduced manual test writing time by **40%** and standardized testing patterns across the product
- Reduced test flakiness by **32%** through infrastructure refactoring and introduced **E2E testing** into the release process, improving confidence in frontend deployments
- Debugged and fixed React component rendering issues in **collaboration with frontend engineers**, bridging QA and product development

### STUDICA LTD. - Full Stack Developer

Sep - Dec 2023

- Designed and implemented responsive React frontend with **70+ custom UI components**; added dark/light theme toggle, font scaling, **Three.js 3D visualization**, and accessibility features (WCAG compliance)
- Independently ported **4,000+ lines of C#/.NET** backend code to **C++** for real-time sensor data processing, ensuring frontend received clean, structured data streams

### WIZ ROBOTICS - Front End Engineer & Technical Project Manager

Jan - Apr 2023

- Developed and deployed **35+ responsive web pages** using React and Node.js based on curriculum design specs; converted instructional content into production-ready frontend applications
- Led small engineering team through **sprint planning**, code review, and deployment processes

## PROJECTS

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### Ciabatta's Revenge Web Game: [github.com/avitalpal/ciabattas-revenge](https://github.com/avitalpal/ciabattas-revenge)

- Architected and constructed a pixel-based **2D web game** from scratch; implemented core systems including real-time input handling, dynamic inventory management, and custom level editor
- Demonstrates **full ownership** of a complex frontend project: game loop, state management, and UI design

### UW Baja SAE Lead Developer: [waterloobaja.ca](https://waterloobaja.ca)

- Single-handedly built a new website for Waterloo's Baja SAE racing team based on Figma wireframes
- Features **responsive design**, image galleries, Email.js contact forms, and **mobile-first UI**

## EDUCATION (Student #21005637)

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### UNIVERSITY OF WATERLOO - Systems Design Engineering, BAsC, GPA: 3.92 / 4

Sep 2022 - Apr 2027

**Programming Coursework:** Data Structures & Algorithms (C++), Digital Systems, Machine Learning (Python)

**Coursework Topics:** Object-oriented programming, Iterative design, Systems modeling, Human interaction analysis, Customer experience design, Prototyping and creative innovation