AHOURA RADPEY

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SKILLS AND CERTIFICATIONS

Skills: C/C++, Clojure, TypeScript, Redux.js, React.js, MySQL, SQL, NoSQL, JavaScript, Java, HTML/CSS, PHP, Data Analysis, Data Science, Data Structures & Algorithms, Python, AWS, Jupyter

EDUCATION

Queen's University, Ontario   **April 2025**
Bachelor's, Computer Engineering
- Completed ECEi program with a Minor in Business, integrating technical engineering studies with commerce coursework
- Courses: Computer Networks, Digital Systems Engineering, AI, Safety Critical Software Engineering, Computer Vision with Deep Learning, Neural and Genetic Computing, Microprocessor Systems, Operating Systems, Database Management Systems, Advanced Data Analytics, Computer Architecture

PROFESSIONAL EXPERIENCE

Owl.co   **Vancouver, BC, Canada**
Fullstack Developer Intern   *May 2023 - September 2023*
- Enhanced user interface performance by developing and integrating frontend components using React/Redux and AWS, improving user experience in a fast paced environment.
- Streamlined backend processes by implementing efficient data handling and API integration using Clojure, contributing to project efficiency.
- Fostered collaboration between teams by coordinating with software development and quality assurance teams on cross functional development projects, enhancing communication skills and interpersonal skills.
- Expanded technical proficiency by engaging in self-directed learning of Python and Swift, enhancing adaptability to new operating systems and tools.

PROJECTS & OUTSIDE EXPERIENCE

CLIPPAGE | AI-Powered Voice Generation Platform   -   *Link to project*   **Remote**
Full-Stack Developer   *January 2025 - Present*
- Engineered a Next.js 14 application with TypeScript that leverages Unreal Speech API to transform text into high-quality voiceovers across multiple languages.
- Designed and integrated Supabase authentication and database systems to manage user sessions, credits allocation, and audio file storage with automated expiration handling
- Implemented robust error prevention strategies for browser-specific API usage and server-side rendering, ensuring consistent user experience across devices with comprehensive loading states
- Technologies: Next.js, React, TypeScript, Tailwind CSS, Supabase, RESTful APIs, Server-Side Rendering

Capstone Project: Sustainable Supercomputing   **Kingston, ON, Canada**
Debugging and Testing   *September 2024 - April 2025*
- Achieved a 7% reduction in supercomputing energy use by developing and testing a software-based power management system in HPC processes using C++ and Power API for real-time power adjustments.
- Maintained 98% of baseline performance by debugging and testing code for real-time power management in HPC systems, ensuring minimal performance impact.
- Enhanced debugging efficiency in the capstone project on sustainable supercomputing by collaborating with cross-functional teams and using Python to identify and resolve issues.

FreeBrowserTools.dev | Open-Source Developer Utility Platform   -   *Link to project*   **Remote**
Creator & Software Engineer   *June 2025 - Present*
- Designed and developed a full-stack Next.js web app hosting 100+ categorized developer tools, deployed on Vercel with zero backend cost.
- Implemented static site generation (SSG) with SEO-optimized metadata per tool for fast load times and strong search engine indexing.
- Built reusable UI components and layouts using Tailwind CSS and the Next.js App Router for consistent UX across all tools.
- Architected scalable routing and dynamic content using a centralized JSON registry and generateStaticParams().
- Integrated accessibility, dark mode, and client-side search (Fuse.js) to enhance usability and retention.

CovGenie | AI Cover Letter Generator (Full-Stack SaaS Project)   -   *Link to project*   **Remote**
Creator & Software Engineer   *July 2025 - Present*
- Built and deployed a full-stack SaaS app that generates tailored cover letters using GPT-4o in under 3 seconds, with real-time file parsing and export to PDF/DOCX
- Integrated user authentication, credit-based billing via Stripe, and Supabase database with row-level security and live subscriptions
- Grew and engaged a user base of 500+ users, achieving a 73% retention rate, a 12.3% freetopaid conversion rate, and a 98.5% generation success rate.
- Optimized performance: 99.7% uptime, 2.3s API response time, 150ms average DB queries, and mobile-responsive UI with drag-and-drop file upload
- Technologies: Next.js, React, TypeScript, Tailwind CSS, Supabase, RESTful APIs, Server-Side Rendering

NBA Real-Time Score Tracker | Full-Stack Web Application   -   *Link to project*   **Remote**
Full-Stack Developer   *February 2025 - April 2025*
- Built a full-stack NBA live score tracker using React, Next.js, and Tailwind CSS with real-time updates, custom API endpoints, and intelligent caching for high availability.
- Engineered efficient data fetching and synchronization, reducing API requests by 80% and handling live stats for 450+ players across 70+ games.
- Implemented robust backend logic with Node.js and Express, including error handling, debouncing, and failover strategies to ensure resilience during API outages.
- Optimized performance and UX, achieving 300ms API response times, responsive UI with Framer Motion animations, and serving 700+ game sessions daily via Vercel.

INTERESTS

Gym, Basketball, Perfumery, Game Design, Rock Climbing, Guitar, Motorcycles, AI