

# Mackenzie Sampson

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## TECHNICAL SKILLS

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**Languages:** TypeScript/JavaScript, Python, Elixir, C#, SQL  
**Backend:** Node.js, Express.js, FastAPI  
**Frontend:** React, Next.js, HTML, CSS  
**Databases:** PostgreSQL, MongoDB  
**DevOps/Cloud:** Docker, Git, Jenkins, AWS (EC2, S3), Kubernetes  
**AI/ML Tools:** Llama 3, Stable Diffusion, Tortoise TTS

## PROFESSIONAL EXPERIENCE

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### **PocketCaps - Founder & Full-Stack Product Engineer**

Sept 2020 – Mar 2025

*TypeScript, React, Postgres, NextJS*

- Designed and developed a scalable e-commerce platform with **Next.js**, **React**, and **PostgreSQL**.
- Achieved a 250% sales increase and acquired 1,500+ customers within the first year.
- Implemented a custom headless CMS with dynamic inventory and real-time order processing.
- Automated API-driven workflows, reducing manual operations by 80% and minimizing discrepancies.

### **Electronic Arts - Tools Software Engineer - Contract**

Sept 2019 – Nov 2020

*Python, C#, JIRA*

- Developed an automated hair physics integration tool using **Python**, reducing artist costs by 12%.
- Maintained, updated, and deployed a high-performance asset processing pipeline in **C#**.
- Reduced processing time by 15% by automating ingestion, transformation, and export of game assets.
- Collaborated with QA, Build Engineering, and Art teams within an **Agile** framework.

### **SAP - Software Engineer Intern (Legal Compliance)**

May - Dec 2017

*Python, Selenium*

- Engineered and presented an automated compliance data entry tool using **Python**, **Pandas**, **Excel**, and **Selenium**.
- Reduced data entry time by 80% and eliminated 95% of manual errors.
- Improved audit accuracy by 25% and enabled faster compliance reporting through tool integration.
- Tool adoption led to standardized practices and improved efficiency across multiple teams.

### **MDA - Junior Web Developer**

Jan - Sept 2016

*JavaScript, C#, HTML/CSS*

- Developed a dynamic infographic using **C#** and **JavaScript**, increasing user engagement by 80%.
- Facilitated stakeholder engagement and purchasing of satellite imaging solutions.
- Collaborated with internal clients, resulting in the corporate website release 2 months ahead of schedule.
- Enhanced online presence and reduced project costs by 15%.

## PROJECTS

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### **AI Shorts Video Generator**

July 2024 - Present

*Python, FastAPI, React, Docker, Llama 3, Stable Diffusion, Tortoise TTS, FFmpeg*

- Architected a scalable video generation pipeline using **FastAPI** and **Docker**.
- Integrated microservices for **Llama 3** script generation, **Stable Diffusion** image creation, and **Tortoise TTS** voiceovers.

### **E-commerce Headless CMS**

Aug 2021 - June 2024

*React, PostgreSQL, TypeScript, Express, Node*

- Engineered a **React**-based headless CMS with **PostgreSQL** and **Express** for RESTful APIs.
- Implemented real-time inventory tracking, automated bundle pricing, and **Stripe** integration.

## EDUCATION

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### **Bachelor of Computer Science**

*University of British Columbia*

### **Bachelor of Business Administration (Finance Major)**

*Thompson Rivers University*