MARK KOPANI

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SKILLS

Client-side	React, Next.js, Web3.js, Redux, CSS/Sass, Material UI, Bootstrap
Server-side	Python, Node.js, Django REST Framework, Ruby/Rails, Rust, Solidity, Ethereum
Utilities	AWS (Lambda, EC2, RDS, S3, etc.), Git, PostgreSQL, MongoDB, Infura
Hard Skills	Full Stack Dev, Web3 Wallet Integration, Smart Contracts, Data Science

EXPERIENCE

Shape Immersive (Vancouver, BC)   *March 2022 - Present*
Full Stack Web3 Developer

· Built white-label SaaS product in Next.js and MongoDB, leveraging Redux and Material UI.
· Facilitated Web3 wallet connection to React-based applications using Web3.js.
· Designed and implemented multiple REST APIs in Django and Express.js.
· Wrote Node scripts for Ethereum L1 and L2 solutions using Infura for blockchain connection.
· Bulk-minted Polygon ERC-1155 NFTs and transferred to a dynamic list of wallet addresses.
· Built internal 3D asset visualizer using both Babylon.js and Three.js packages.
· Used Twilio to implement multi-factor authentication.

Lighthouse Labs (Vancouver, BC)   *December 2021 - Present*
Web Development Mentor (Part-time)

· Explain programming concepts to students by comparing them to real-world situations.
· Help students with technical difficulties involved with installing and running development tools.
· Guide students as they debug their assignments and projects.
· Have general discussions with students about programming and various career paths.
· Advise on best programming practices.

MarketLink (Vancouver, BC)   *March 2021 - March 2022*
Software Engineer, Lead Developer

· MarketLink was an insurance startup co-founded by Murrick Insurance and Broker Link Software.
· Designed database schema and project structure for an insurance Broker Management System.
· Spearheaded UI/UX design and made adjustments with company directors.
· Implemented React front-end and several dynamic, multi-step forms.
· Built powerful React hooks to cater to the organization's specific form-building and validation requirements.
· Integrated with and contributed to a Ruby on Rails back-end with a PostgreSQL database.
· One of two full-time developers; oversaw multiple contractors.
· Primary communicator when integrating with external services.

Pine Digital Growth (Vancouver, BC)   *August 2019 - January 2021*
Owner, Full Stack Developer

· Built several projects with Django back-ends and jQuery and CSS/Bootstrap front-ends.
· Drew ER diagrams and presented to clients prior to implementing databases in PostgreSQL.
· Containerized projects with Docker before deploying to AWS (EC2, RDS, & S3) using NGINX as a reverse proxy.
· Maintained DNS management for clients.

EDUCATION

CFA Program participant, CFA Institute *December 2019*

· Completed Level I

University of British Columbia *September 2014 - April 2019*

· Bachelor of Science, Major in Statistics (with a thematic concentration on computer science)
· *Key Courses*: Machine Learning and Data Mining, Numerical Approximation and Discretization, Time Series and Forecasting, and Relational Databases.

NOTABLE PROJECTS

Weebox *https://weebox.io/*
Shape Immersive

· A public release page for a client's NFT collection.
· Built with Next.js.

Safer *https://mkopani.github.io/projects/safer*

· Web3 wallet prototype focused on ease of use and security.
· Proof-of-concept is a fork of MetaMask browser extension with refreshed UI.
· Brand new features include multi-factor authentication.
· Extension codebase is in Node and React, while backend API is Django REST Framework.

Arc *https://mkopani.github.io/projects/arc*

· White-label NFT store and marketplace catered to individual creators.
· Built with Next.js and a MongoDB database.

F3STIVAL *https://mkopani.github.io/projects/f3stival*

· Bulk minting of ERC-1155 Polygon NFTs.
· Bulk NFT transfer Node script.
· Uses Infura as Web3 provider.

FloorTrader *https://mkopani.github.io/projects/floor-trader*

· An API wrapper for Interactive Brokers.
· Built with Django REST Framework.

Format As You Type *https://github.com/mkopani/format-as-you-type*

· NPM package built for React.
· Input field formatter that supports all input components.
· This allows the developer to hook into their existing components rather than using a brand new component like with other packages.
· Format and behavior is fully customizable.

Canary Lite *https://bayshoreeasydrive.com/*
Pine Digital Growth

· Lightweight rental car reservation system and CRM.
· Contracted by Bayshore Easy Drive.
· Generated a 150% increase in bookings within two weeks.
· Built with Django, jQuery, HTML, and CSS.

Pine Python Package *https://pypi.org/project/pppine/*
Pine Digital Growth

· Miscellaneous Python and Django helper functions.