

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 - January 2023

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.