

# Toufiqur R. Chowdhury

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## Summary

Full-stack developer with 8+ years of experience building scalable web apps, developer tools, and decentralized platforms. Led full frontend and backend development at Totem Live Accounting, designing robust off-chain architecture and modular systems. Adaptable engineer who rapidly learns new ecosystems, from Python and Golang to AngularJS and Polkadot, and delivers production-ready features fast.

## Technical Skills

**Languages:** JavaScript, TypeScript, Python, Go, C#, PHP

**Frontend:** React, Tanstack Table, React Hook Form, AngularJS, Redux, Semantic UI  
React, Material UI, Tailwind, HTML, CSS, Bootstrap

**Backend:** Node.js, FastAPI, Express.js, Golang, Redis, Postgres, CouchDB, TweetNaCl.js

**Blockchain:** Polkadot/Substrate, Web3.js, Polkadot.js, NFT, BONSAI verification, DApps

**Tools:** Vite, Docker, Firebase, WebSockets, RxJS, Git, GulpJS, RabbitMQ

**Other:** REST APIs, Webhooks, Microservices, MVP prototyping, Agile

## Experience

Nextion (Remote, US) - Full Stack Developer

**Feb 2025 - Present**

**Tech:** React, TypeScript, Zod, Vite, Tanstack Table, React Hook Form, Python, FastAPI, Postgres, Redis

- Developed a trade approval, execution and monitoring UI integrated with Redis-based quant order system and executed using Interactive Brokers (IB) gateway
- Fast-tracked learning Python using AI to ship FastAPI-based backend with Dockerized Postgres
- Engineered automated audit log system in Postgres, displayed via UI
- Supported performance analysis by exposing real-time backend services metrics and trade execution states

[Totem Live Accounting](#) (Remote, CH) - Co-founder & Lead Developer

**Mar 2019 - Mar 2024**

**Tech:** JavaScript, React, Node.js, CouchDB, Polkadot.js, WebSockets, Semantic UI  
React, Material UI, TweetNaCl.js

## Core Contributions:

- Sole developer for entire frontend & off-chain backend system
- Produced full SPA with modules like:
  - In-app wallet, partner management, timekeeping, and rewards
  - Marketplace with proposal submission & approval and automated payouts on completion
  - Integrated chat, Discord support, onboarding flow, and financial statement viewer
  - Streamlined user onboarding flow with signup, faucet, backup and diff-aware selective restore system
  - Financial statement viewer using Totem's enterprise-grade accounting engine
- Engineered a sequential & resumable on/off-chain transaction queue with UI-based history for debugging and transparency
- Co-designed and implemented [BONSAI](#), an innovative dual on/off-chain proof system using hash anchoring and token-based verification
- Launched the Crowdloan & Pledge DApp, enabling users to participate in the Kapex (Polkadot) crowdloan and crowdfund the team - raising \$1+M and \$83.6K respectively
- Secure communication between microservices using [TweetNaCl.js](#) encryption and signing
- Authored cross-stack library `common-utils` with Reactive hooks, components, JSON storage & CouchDB helper and form + API data validation library
- Automated CI with GitLab webhooks and custom scripts for source-committed builds and improved release traceability
- Boosted user retention, social engagement & bug discovery through gamified rewards engine and responsive onboarding
- Coded and deployed [Totem Live Accounting](#) homepage from design specs

## Community Contributions:

- Launched and ran the Totem Ambassador Program
- Led multilingual Telegram and Twitter engagement, doubling community engagement and improving support responsiveness across 6+ language groups
- Provided user support by in-app live chat, socials and led feature walk-throughs

**Podcasts:** Featured on [RelayChain](#), [Parity & Friends](#) and [Totem Tech Talks](#)

**Demo/Tutorial:** [Totem.Live](#) | [Crowdloan](#) | [Polkadot Decoded](#)

**Open Source:** [Totem UI](#), [Message Service](#), [Common Utils](#) and [others](#)

## Omniscope (Remote, US) - Tokenization Developer

**May 2021 - Jan 2022**

- Built the tokenization engine for virtual real estate assets
- Integrated Stripe and Web3 payment flows
- Worked on the Virtual Real Estate Map application, a SPA frontend in React + Redux and NodeJS backend, deployed on Firebase
- Created NodeJS microservice for automation of tokenization transactions using queuing mechanism and singleton pattern
- Discovered and fixed major security flaws left by ex-dev
- Engineered a NodeJS microservice for queueing & automation of Web3 payment transactions and randomization of rewards for campaign events

## Freelance & Open Source Developer

**2017 - Present**

- [Halo Info Bot](#) (AKA Halo Butler), a Discord command based chatbot, in Go for Halo Platform Blockchain, masternode and DEX
- [HaloDEX data feed server](#), a TradingView charting library in Go for the Halo Platform community
- [Cloud Connector](#) for connecting to MS Azure, GCP and AWS S3 buckets

## The Summit Group (Melbourne, AU) - Full Stack Developer

**Apr 2016 - Apr 2017**

- WHMCS payment integration via Ezidebit API
- SPA admin dashboard for customer billing and invoicing system using AngularJS, deployed with Docker
- Backend API & microservices using Go, MySQL & RabbitMQ
- Programmed automation tools in Go for parsing, formatting and storing telecom provider billing data

## Web123 Pty Ltd (Melbourne, AU) - Full Stack Developer

**Jul 2015 - Mar 2016**

- Worked with the tech lead on [Foxley CMS](#), building backend APIs, unit tests (C#/.NET), and UI in AngularJS
- Turned designs into working responsive websites

## Easyweb Digital (Melbourne, AU) - Systems Developer

**Sep - Dec 2014**

- Backbone.js component development
- UI/UX components using Bootstrap and Underscore

## Education

### **BEng Software Engineering (First Class Hons)**

University of Greenwich, London, UK (2011–2014)

## Certifications

- **Red Hat Certified Engineer (RHCE)** - 91.2% test score
- **Apps for Good** – Entrepreneurship, Facebook Apps development, MVP project & presentation at Facebook London Office

**Languages:** English (Fluent) | Bangla (Native)

**References:** Available on request. See [Linkedin Recommendations](#)

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Latest version: [https://alien45.github.io/cv/Toufiqueur\\_Chowdhury\\_CV.pdf](https://alien45.github.io/cv/Toufiqueur_Chowdhury_CV.pdf)

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