

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](#)

Omniscape (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](#)

Latest version: https://alien45.github.io/cv/Toufiqur_Chowdhury_CV.pdf

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