

# 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.

## Education

BEng Software Engineering (First Class with Honours)

[University of Greenwich](#), London, UK (2011–2014)

**Final Year Project (Indoor Positioning via WiFi Fingerprinting):** Designed and built a proof-of-concept Android app for WiFi fingerprinting and real-time indoor location tracking using signal strength, triangulation, and basic ML via SDKs.

## Experience

Nextion, US - Full Stack Developer (Remote)

**Feb 2025 - Present**

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

- Developed a trade approval, re-/execution, and monitoring UI with batch order queuing, powered by Redis-based quant engine and IB gateway
- Fast-tracked Python with AI to ship FastAPI backend using Docker & Postgres
- Enabled analytics by exposing backend metrics, execution states, and historical portfolio snapshots
- Wrote an interactive shell script to set up Postgres with reusable, idempotent schema and automated entry of audit logs using Postgres triggers

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

**Mar 2019 - Mar 2024**

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

**Core Contributions:**

- Sole developer of the entire frontend & off-chain Node.js backend
- In-app Blockchain wallet, partner & team management and timekeeping & financial statement viewer

- Marketplace with proposal submission & approval with automated payouts on completion
- Streamlined user onboarding flow with signup, faucet, backup & diff-aware selective restore system and in-app notifications & chat
- Engineered a sequential & resumable on/off-chain transaction queue with history UI 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, raising \$1+M in the Polkadot Parachain auction and \$83.6K in the pledge round
- Secured & encrypted inter-microservice communication with [TweetNaCl.js](#)
- 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
- Coded and deployed [Totem Live Accounting](#) homepage from design specs
- Architected semi-automated tooling for multilingual support for API & frontend

### Community Contributions:

- Boosted user retention, social engagement & bug discovery through gamified rewards engine and responsive onboarding
- 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

**Demo Of My Work:** [Totem.Live DApp](#) | [Crowdloan DApp](#) | [Polkadot Decoded](#)

**Podcasts:** [Totem Tech Talks](#) | [RelayChain](#) | [Parity & Friends](#)

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

[Omniscape, US](#) - Tokenization Developer (Remote)

### 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

## Open Source Work & Other Activities

### 2017 - 2019

- [Halo Info Bot](#): Discord chatbot in Go for the Halo Platform blockchain and masternode/DEX data
- [HaloDEX Chart Feed](#): Real-time TradingView charting data server in Go
- [Cloud Connector](#): Tool for syncing data across AWS S3, GCP, and Azure
- Wrote a [PhD research proposal \(PDF\)](#) on security vulnerability detection in blockchain-based systems (unfunded)
- Ran a small GPU-based home crypto mining operation during the early Ethereum days

## 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
- Co-interviewed, helped onboard and mentored an intern

## 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

## Certifications

- [Apps for Good](#) (2012) - MVP development, team leadership, and final presentation at Facebook London HQ. Sponsored by Facebook & others.
- **Red Hat Certified Engineer - RHCE** (2009) - 91.2% test score

## 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, DApps

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

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

## Additional Info

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

**References:** Available on request. See employer recommendations on [LinkedIn](#).

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Updated: 2025-07-22 | Latest PDF and detailed online CV: [alien45.github.io/cv](https://alien45.github.io/cv)