

Franklin Liu

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EDUCATION

Bachelor Computing

National University of Singapore and Technology | Singapore

Jan 2017 – Feb 2021

- Courses: Blockchain Fundamentals, Distributed Systems, Cryptography, Web Applications

EXPERIENCE

zkApp Developer | Remote

Cyfrin Community

Jul 2023 – Jun 2025

- Gained hands-on experience with zkApps and Layer 2 architecture
- Developed Decentralized Voting dApp and Private Age Verification zkApp using Circom, Noir, SnarkJS

Web3 Developer | Internship

ChainLabs

Jan 2023 – Jun 2023

- Designed and deployed smart contracts using Solidity on Ethereum testnets
- Integrated contracts with simple dApp interfaces using Ethers.js
- Worked with senior engineers to write unit tests and optimize gas usage

Web Developer | Freelancer

Oct 2021 – Dec 2022

- Delivered responsive, full-stack web apps for startup clients using React, Next.js, and Node.js
- Created landing pages, dashboards, authentication flows, and admin panels
- Designed RESTful APIs and connected frontend with backend services
- Built and deployed projects on Vercel, Heroku, and Netlify
- Collaborated with clients to gather requirements, iterate on UI/UX, and maintain delivered projects

PROJECTS

Decentralized Voting dApp

Solidity, Hardhat, React

Jan 2024 – Jun 2025

- Developed a voting contract with wallet-based authentication
- Frontend connected via Ethers.js; votes were logged on-chain

zkApp: Private Age Verification

Circom, Noir, SnarkJS

Jul 2023 – Dec 2023

- Built ZK circuits to verify user is over 18 without revealing age
- Used SnarkJS to generate and verify zero-knowledge proofs

TECHNICAL SKILLS

Blockchain & Smart Contracts:

- Solidity, Hardhat, Ethers.js
- Circom, Noir, SnarkJS (zkApps)
- Ethereum, zk-rollups, Layer 2
- Smart contract deployment, testing, auditing basics

Web Development:

- Frontend: React.js, Next.js, HTML/CSS, TailwindCSS
- Backend: Node.js, Express.js, REST APIs
- Database: MongoDB, PostgreSQL
- Dev Tools: Git, Docker, Figma, VSCode

Other:

- ZK-SNARKs fundamentals
- Agile workflows, remote collaboration
- Technical documentation, client communication