

# Earl Hope Caylan

## Senior Full Stack Engineer

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Accomplished Full Stack Software Engineer with 9 years of expertise in front-end and back-end development, specializing in **CMS** platforms, the **MERN** stack, and **Blockchain** technologies.

Highly skilled in web development using React, with a proven track record of leading over 6 large-scale projects, each with budgets exceeding \$1 million.

Adept at thriving in fast-paced startup environments and excelling in remote work settings, delivering high-impact solutions that drive business success.

## SKILLS

- **Programming Languages**

HTML/CSS, Javascript, Python, Typescript, PHP, C#, C/C++, Golang, Rust, Solidity

- **Front End Technologies**

React, Next.js, Nuxt.js, Angular, Vue(Vuex), Ui/UX Design

- **Back End Technologies**

Node.js, Express.js, Laravel, Asp.Net(Core, Web API), AWS, GraphQL

- **Databases**

MongoDb, PostgreSQL, MySQL, Firebase(Firestore, Realtime), Oracle

## WORK EXPERIENCE

### React/React-Native Frontend Engineer

[Lumina](#)

Feb 2022 - July 2024

Los Angeles, CA

- Worked in an Agile development environment and led daily SCRUM stand-up meetings and retrospectives while managing a team of 4 people.
- **Translated 200+ pages of Figma design into React** micro front-end using React v17, Tailwind CSS, HTML5, and storybook.
- **Created comprehensive unit tests** with Jest and React Testing Library, achieving 90%+ test coverage and reducing bug count by 40% during development phases.
- **Devised a robust dataflow strategy** that streamlined state management processes, ultimately enhancing application performance and enabling the team to scale features more rapidly, achieving a 20% reduction in development time.
- Implemented CI/CD (Continuous Integration/Continuous Deployment) using Circle CI, CodeCov (code coverage report), Netlify, and Gitlab.
- Converted the React SPA into React Native/Expo.
- **Tech Stack:** React, React Native, react-query, Javascript, AWS, Tailwindcss

## Blockchain Engineer

[Beanstalk Protocol](#)

Jun 2021 - Nov 2022

Philadelphia, PA

- **Maintained and developed** upon the entire Solidity stack. Managed several smart contract developers to coordinate feature implementation, code reviews, and protocol improvements.
- Applied protocol improvement proposals that were passed by internal governance and integrated into the protocol. These helped us achieve \$180M in total liquidity within our protocol at our peak, including an influx of \$80M within two weeks.
- Wrote comprehensive technical documentation for the protocol and full-coverage unit tests using Hardhat and Ethers.js.
- Helped implement algebraic decentralized finance Liquidity Pool math using approximation methods within the protocol contracts.
- **Implemented Ethereum Improvement Proposals (EIP)**, specifically EIP 2535, allowing rapid scaling and abstraction of DAO's decentralized finance (DeFi) protocol.
- **Tech Stack:** Blockchain, Solidity, TypeScript, Heroku, Node.js, Mithril.js, React

## Senior Software Engineer

[COTA Healthcare](#)

Dec 2018 - Apr 2021

New York, NY

- **Reduced duplicate code by 30%** by overhauling an existing React-based dashboard application, introducing multiple abstraction layers for advanced maintainability and efficiency.
- **Enhanced data display performance by 55%+** through optimizing API request handling, resulting in faster load times for large datasets on screen.
- Implemented a comprehensive E2E test suite for the frontend application, leading to a 30% reduction in post-deployment issues and ensuring 100% test coverage.
- Integrated the suite into the code review process, enhancing quality assurance and reducing bug-related revisions by 25%.
- **Tech Stack:** React, React Native, Node, JavaScript, Azure

## Software Developer

[Palantir Technologies](#)

Sep 2015 - Nov 2018

New York, NY

- **Contributed to developing over 30 projects** across diverse industries, including social networking, crowdsourcing, technology brokerage, and healthcare, leading to a 20% increase in user engagement.
- Collaborated with a backend team to design an architecture that boosted data flow efficiency by 30%.
- Contributed to the design of scalable solutions, successfully managing 10+ project requirements to meet client specifications.
- **Tech Stack:** React, Angular, HTML, CSS, JavaScript, TypeScript, jQuery,

# EDUCATION

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## Bachelor's Degree of Computer Science

Hunter College, New York, NY

2011 – 2015