

# Norman Lopez

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## Software Engineer

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## Summary

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Software engineer specializing in blockchain and mobile development. Currently focused on Midnight blockchain ecosystem, building privacy-preserving applications and solving mobile integration challenges. Previous experience includes contributing to eBay's Android app features generating \$300M+ revenue. Passionate about bridging mobile and Web3 technologies.

## Skills

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**Languages:** TypeScript, JavaScript, Kotlin, Java, Rust, Solidity, Swift, Compact **Mobile:** React Native, Android, iOS, Flutter, WebAssembly (WAMR) **Blockchain:** Midnight, Solana, EVM, NEAR, Algorand, Chainlink, Bitcoin **Tools:** Zero-Knowledge Proofs, WASM, Turbo Modules, Web3, Docker, Linux **QA & Testing:** XCUITest, Espresso, Appium, TestRail, API Testing, Integration Testing, Mock Testing, CI/CD Pipelines, Performance Testing, Accessibility Testing, Python, Jira, Agile/Scrum

## Experience

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### Blockchain Developer / Founder

MobWeb3 | Jan 2022 - Present

#### Midnight Blockchain Focus:

- **zkSalaria** - Payroll system. Pay employees with encrypted balances and verify income with Zero-Knowledge Machine Learning (ZKML) proofs—no salary data revealed. (<https://github.com/nel349/zkSalaria>)
- **MidnightWasmTest** - React Native WebAssembly integration for cryptographic modules (<https://github.com/nel349/midnight-mobile-connector>)
- **MidnightForge** - Developer tooling (**1st Place DEVx, 1st Place NFT**).
- **Midnight Pay** - Privacy-first payment gateway with ZK proofs (<https://github.com/nel349/midnight-pay>)
- **midnight-bank** - DeFi application (**2nd Place Mini dApp Hackathon**) (<https://github.com/nel349/midnight-bank>)
- **MidnightMobile** - Mobile wallet for Midnight Network (<https://github.com/nel349/midnight-mobile>)

#### Multi-Chain Development:

Solana:

- **MtnPay POS** - Solana payment API integration with Clover POS systems (**Demo:** <https://photos.app.goo.gl/kEudDv4AgpCgPmwE7> | **Docs:** <https://mtnpay.notion.site/mtnPay-the-Solana-Payment-API-2f9faf1139964d1f95545b43829b3abf>)
- **WalletScanner** - Wallet analytics tool (<https://github.com/nel349/WalletScanner>)
- **Capsulex** - Time-locked messaging dApp (**Demo:** [https://youtu.be/xZZ8Z\\_XaDEY](https://youtu.be/xZZ8Z_XaDEY))

Ethereum/EVM:

- **MonkeyTrivia** - NFT-based trivia game with on-chain game state (**Smart Contracts | Client | Farcaster Frames**)
- **Bz-Findata** - DEX/CEX data aggregator (<https://github.com/nel349/bz-findata>)
- **Web3Interview** - Escrow platform for paid interviews (<https://github.com/nel349/web3InterviewsReactClient>)

Other Chains:

- **Algorand**: Cultivest backend ([Code](https://github.com/nel349/cultivest-backend) | [Demo](https://youtu.be/YD_wbP7jQoQ))
- **Chainlink**: ChainlinkGPT oracle integration ([Code](https://github.com/nel349/chainlinkGPT) | [Demo](https://youtu.be/QbEgaoYZGFc))
- **Bitcoin**: SatoshiGPT (<https://github.com/nel349/satoshiGPT>)
- **NEAR**: Lens Protocol on Aurora Network ([https://github.com/nel349/LensProtocol\\_auroraNetwork](https://github.com/nel349/LensProtocol_auroraNetwork))

## Android Software Engineer

eBay | May 2019 - Jul 2021

- Developed seller-initiated offer features contributing to \$300M+ quarterly revenue
- Implemented volume pricing feature increasing multi-item purchases by 10-15%
- Worked on core transaction flows using Kotlin and Android architecture components

## Software Test Engineer

eBay | Jul 2017 - May 2019

- Automated testing for Android/iOS apps, maintained 10+ CI test suites

## Mobile Test Automation Engineer

Nike | Apr 2015 - Sep 2016

- Developed test frameworks for Nike+ app ecosystem across platforms

## Mobile Automation Test Engineer

Mutual Mobile | Dec 2014 - Apr 2015

- Reduced testing time by 30% with Appium automation

## Education

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### B.S. Computer Science

University of Texas at Austin | 2010 - 2014