MITCHELL WINTROW

SOFTWARE ENGINEER

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SUMMARY

Hi there! I'm a senior software engineer with over 5 years of professional experience specializing in TypeScript/JavaScript, React, React Native, Expo, Node.js, Java, Go, Python, AWS, Firebase, and GCP cloud services. Proven leader with experience leading engineering teams and driving projects from conception through deployment. Adept in designing & building efficient, optimized UI/UX for mobile & frontend with fast, powerful, & scalable backend systems. Passionate about crafting efficient, user-centric software.

PROFESSIONAL EXPERIENCE

Lead Senior Frontend and Mobile Engineer, FlashMock   May 2025 - July 2025

Tech Stack: *TypeScript, React, React Native, Expo, Tanstack, Vite, Shadcn/ui, Tailwind CSS, Python, Lambda, Firebase, Amplitude, EventBrite, Gemini Integrations, LinkedIn OAuth, Google SSO, GetStream.io, Vercel*

- **Development of Authentication Flow**: Led the design and development of the Authentication flow using LinkedIn OAuth, Google SSO, and Firebase email+password, including unified session management, for both the web UI as well as the mobile UI
- **Development of all major landing pages and app pages, including analytics**: Led the design and development of the web landing page and all linked pages (Features, Pricing, Events, Contact etc), as well as the internal app UI, AI integrations, and Mixpanel + Amplitude analytics in both web UI and mobile UI.
- **Development of chat streaming and Stripe payment flow**: Led the design and development of both the subscription and add balance Stripe payment flow for web and mobile, and developed the GetStream.io chat streaming functionality in both web and mobile

Frontend Engineer, Double Raven Solutions LLC   Jan 2025 - May 2025

Tech Stack: *TypeScript, Next.js, React, Tanstack, IAM, KMS, S3, Electron.js, Node.js, Docker, Kubernetes*

- **Development of Forensic Facial Composite UI**: Designed and led the develop the UI/UX of the Forensic Facial Composite app that integrates and uses AI to analyze witness descriptions, categorize keywords, compare keywords against built-in library to create a 3D facial composite
- **Led Refactoring to Next.js**: Led the refactoring of the previous product UI to use Next.js server components to optimize performance and react-hook-form with zod to improve validation and error messaging, and also led the migration to React 19

Frontend Engineer, Amazon Connect (AWS)   Aug 2022 - Nov 2024

Tech Stack: *TypeScript, React, Tanstack, Redux, Node.js, Python, CDK, CloudWatch, IAM, KMS, S3, Connect, Customer Profiles, AppFlow, EventBridge, Kinesis, CloudFormation, SQS, Shopify, Marketo*

- **Development of Customer Segmentation UI**: Led the development of the Segmentation UI for creating complex customer segments and campaign workflows, listing all segments, viewing segment details, and exporting up to 350k profiles from a segment as a CSV in the browser.
- **Development of Contact Trace Records**: Designed and led the development of a backend profile auto-association template for incoming calls and chats, designed and led the development of the AWS Console UI configurations for it, and wrote the public documentation for it
- **Increased test coverage, Wrote Python Script for Resource Creation**: Increased legacy test coverage from 65% to 88%, wrote script to generate data and deploy demo domains with all resources and features enabled for product managers to demo to new customers

Backend Engineer Apprenticeship/Internship, VMware   Jun 2022 - Aug 2022

Tech Stack: *Java 17, Spring Boot, H2, PostgreSQL, Docker, Kubernetes*

- **Built REST API server**: built a Docker image of a Java Spring Boot server with Guice dependency injection, concurrent thread processing, Log4j logging, H2 + PostgreSQL db
- **Deploy a Kubernetes cluster**: deployed a kubernetes cluster of servers on Docker images
- **Implemented Test Driven Development (TDD)**: created JUnit + Mockito tests for REST APIs

Full Stack Engineer, Double Raven Solutions LLC   Jun 2020 - Jan 2022

Tech Stack: *TypeScript, React, Tanstack, Go, MySQL, Python, IAM, KMS, S3, Electron.js, Node.js, Docker, Kubernetes*

- **Designed OSINT Network**: Designed the backend system and integrations for structured/semi-structured/unstructured data ingestion, NLP extraction, full text indexing, identity resolution, geo mapping, and audio/video/image transcription and identification
- **Developed UI and Data Extraction/Visualization Tools**: Designed & led the development of product UI, data extraction/geo mapping tools for subpoenaed cell phone data + data visualization

PROJECTS

"Voizy" Social Media App for Android   Mar 2025 - Present
UI is **Kotlin**; **Backend** is **Java**, **Go**, **MySQL/Vitess**, **Kafka, Kubernetes**; **ML** is **Python**;
- Secure auth via JWT and API keys, image upload to S3, Google Maps/Places API
- ML powered "Recommended Posts" page, event-driven model training

"JourneyApp.me" Customized Journaling App for iOS, iPad, Android   Feb 2025 - Mar 2025
UI is **SwiftUI/UIKit**; **Backend** is **Go**, **MySQL**, **MongoDB**; Deployed on **EC2**, **AppStore**;
- Secure auth via JWT & API key, encrypted image upload to S3, no public access to images/entries
- Custom markdown in entries, add images, locations, tags, fuzzy search w/ text highlights, filters

EDUCATION

Bachelor of Computer Science   Sep 2024 - (Aug 2026)
Western Governors University
- Computer architecture, Java, C++, Python, System Design, AI & Machine Learning

SKILLS

TypeScript | React | Tailwind CSS | React Native | Expo | Next.js | Svelte | Node.js | Java | SpringBoot | Python | Go | Kotlin/JetpackCompose | Swift/SwiftUI/UIKit | AWS | GCP | Firebase | MySQL | PostgreSQL | MongoDB | Redis | CI/CD | Docker | REST APIs | GraphQL | Flutter | Leadership | System Design

ADDITIONAL INFORMATION

- **Languages:** English, Hebrew, Russian, Vietnamese
- **Certifications:** Advanced Software Engineering Immersive with 80hrs/week & <3% acceptance rate (13 weeks, Hack Reactor), Grokking System Design Fundamentals (DesignGurus), CompTIA A+ Core 2
- **Awards/Activities:** Voted class president (Hack Reactor 2022), Taught English

PROJECT LINKS

- **"Voizy" Social Media App for Android (Kotlin/JetpackCompose):**
    - **UI:** https://github.com/mrrobotisreal/VoizyAndroid
    - **Go Backend:** https://github.com/mrrobotisreal/VoizyServer
    - **Java Backend (Replica):** https://github.com/mrrobotisreal/VoizyServerJava
    - **Python ML Backend:** https://github.com/mrrobotisreal/Voizy_Recommendation_Service
- **"JourneyApp.me" Customized Journaling App for iOS and iPad (SwiftUI/UIKit):**
    - **UI:** https://github.com/mrrobotisreal/JourneyApp_iOS
    - **Go Backend:** https://github.com/mrrobotisreal/JourneyAppServer
    - **AppStore:** https://apps.apple.com/us/app/journeyapp-me/id6741499202
- **Personal Website (portfolio):** https://www.winapps.io
- **Media Manipulator app:** https://www.media-manipulator.com
- **QR Code Generator app:** https://ui.qr-gen.winapps.io
- **Linktree for social media:** https://linktr.ee/wintrow