

# MITCHELL KEO

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Active TS/SCI Clearance

## TECHNICAL SKILLS

**Languages & Libraries** | JavaScript, Typescript, HTML, CSS, Node.js, Express.js, React.js, Tailwind, Python

**Cloud & Deployment** | GitHub Actions, Git, Github, Render, Vercel

**Database** | Data Structures, PostgreSQL, SQL, Algorithms, Relational Databases, ERD

**Server-Side** | Test Driven Development (TDD), JSON, Docker, REST API, Vite

**Client-Side** | DOM API, Responsive Design, UI & UX Design, Microservices

**Fundamentals of Computer Science** | Object-oriented programming (OOP), Agile Methodology, SDLC, Command Line, Linux, Full Stack Engineering, Web Development

## PROFESSIONAL EXPERIENCE

**Golden Tech – Software Engineer;** Tacoma, WA

March 2024- Present

- Develop and maintain responsive web applications using TypeScript, React, and Tailwind CSS, ensuring clean, scalable, and maintainable front-end architecture.
- Collaborate cross-functionally with UI/UX designers and QA engineers to translate design specifications into high-quality, user-friendly interfaces that meet accessibility and performance standards.
- Analyze application analytics and performance metrics to identify areas for improvement, optimize user experience, and support data-driven feature development.

**U.S. Army, 1st Special Forces Group – Communications Manager;** JBLM, WA

Dec 2020 – Jan 2024

- Developed communication plans using satellite telecommunications, radio equipment, and nonstandard communication applications for 3 special operations deployments
- Instructed 6 Special Forces teams on communications equipment with product demonstrations and implementations, enhancing overall proficiency with technical assets and improving communication quality across all teams

## SOFTWARE ENGINEERING APPLICATIONS

**UrbanIntellect | AI/ML Engineer | NASA Hackathon**

<https://github.com/mitchellnkeo/UrbanIntellect>

- Developed an AI-powered urban planning recommendation system using Python, FastAPI, and scikit-learn that processes real population density data (571+ geospatial data points) to generate recommendations for 5+ different planning scenarios (balanced development, greenspace increase, air pollution reduction, equitable development, and transit-oriented development), featuring weighted composite scoring algorithms and real-time neighborhood-level insights
- Built a conversational AI chatbot with natural language processing capabilities that enables urban planners to query development recommendations through natural conversation, featuring intent classification, confidence scoring, contextual response generation, and integration with NASA Earth observation data (PACE OCI, VIIRS, MODIS) and local datasets (PSCAA air quality, Seattle Open Data, CDC Social Vulnerability Index)
- Architected a full-stack solution with RESTful API endpoints (/chat, /health, /recommendations, /scenarios, /neighborhoods) and React frontend integration, processing 571+ geospatial data points to provide neighborhood-level insights with weighted composite scoring algorithms, real-time recommendation generation, interactive map visualization with Leaflet, and deployment-ready configuration for Vercel and Railway

**Seattle Chinatown Book Club | Full Stack Engineer**

[https://github.com/mitchellnkeo/SCBC\\_App](https://github.com/mitchellnkeo/SCBC_App)

- Architected and developed a full-stack React Native mobile application with TypeScript, Firebase, and Expo, implementing comprehensive social features including friend requests, real-time notifications, and event management for a community of 300+ users.
- Designed and implemented a robust event management system with real-time updates, RSVP functionality, and admin approval workflows, utilizing Firebase Firestore for data persistence and Firebase Storage for media handling.
- Created an optimized social networking system with bidirectional friendships, profile interactions, and real-time notifications, implementing security rules and composite indexes to ensure data integrity and performance at scale.

## EDUCATION

**Hack Reactor: Operation Level-Up | Advanced Software Engineering Immersive**

Jan 2024

**The University of Texas at Austin | Bachelor of Science, Biology**

May 2019