Mark Bosco

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Education

Bachelor of Computer Science, *University of Pittsburgh*
- 6 x Dean's list, GPA: 3.81/3.88
- Computer Science Club, Minor in Creative Writing

Aug 2021 –
Apr 2025
Pittsburgh, PA

Professional Experience

Application Architect Intern, *Deltek* 🔗
- Designed and implemented a scalable, cloud-native, multi-tenant manager utility class
- Optimized database resource usage with tenant-configured *HikariCP* connection pools
- Enabled real-time tenant updates using K8s custom resources, reducing configuration delay
- Developed REST APIs with *Jakarta EE* and *MicroProfile* for seamless tenant administration
- Enhanced *Kubernetes* (*K8s*) deployments with environment-specific Helm charts
- Presented and demoed the utility to engineering leadership, leading to future adoption

Jun 2024 –
Present
Remote

Software Engineer, *Forevergreen* (*Startup*) 🔗
- Led full-stack agile development of key screens, including the pivotal home tab
- Built a profile management system with *Cloud Storage* enabling account personalization
- Developed an email referral system with deferred deep linking for accurate analytics
- Engineered an iOS/Android notification system with *FCM,* enhancing user engagement
- Optimized app-wide styling for performance and responsive multi-platform visuals

May 2024 –
Present
Pittsburgh, PA

Endpoint IT Technician, *University of Pittsburgh*
- Deployed the campus-wide *Palo Alto GlobalProtect* network, enhancing security
- Resolved daily IT cases using *TeamDynamix*, *Microsoft Intune*, and *BlueCat*
- Translated complex technical concepts into user-friendly language for faculty

Mar 2023 –
Present
Oakland, PA

Personal Projects

Clear Meals, *Mobile Meal Tracking App* (*TypeScript/Expo/Firebase*) 🔗
- Solo developed app for daily meal logging, nutrient analysis, and historical diet tracking
- Designed a streamlined UI for searching, calculating, and viewing nutritional information
- Employed the *FatSecret* REST API with OAuth 2.0 via secure *Firebase Cloud Functions*
- Integrated user verification and data management with *Firebase Authentication* and *Firestore*

Jun 2024 –
Present

CareerVue, *AI-Powered Job Application Monitor* (*Python/CustomTkinter/SQLite*) 🔗
- Categorized and extracted key information from job-related emails with Generative AI
- Architected a backend with JSON-based caching, *SQLite, and* robust connection handling
- Leveraged multithreading for background email processing, improving performance
- Assembled a responsive, dynamic, multi-platform GUI with *CustomTkinter*

Aug 2024 –
Present

Pitt Drip, *AI-Driven Wardrobe Assistant* (*TypeScript/React Native/Express*) 🔗
- Developed React Native frontend with authentication, routing, and database integration
- Created interactive screens for closet management, outfit suggestion, and clothes scanning
- Implemented AI-driven outfit recommendations using *OpenWeather* and *Gemini* APIs
- Collaborated with another developer to complete the app in 16 hours for a hackathon

Sep 2024

Technical Skills

Languages: Java, Python, JavaScript/TypeScript, C#, C/C++, HTML/CSS
Tools: Git, Figma, LucidChart, Docker, Postman, Minikube, Gradle, Selenium, VisualVM, DBeaver
Tech: Maven, JUnit, React Native, Firebase, Helm, Kubernetes, HelidonMP, HikariCP, SQL Databases, Linux