Mark Bosco

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
Education

Bachelor of Computer Science, *University of Pittsburgh*   Aug 2021 –
- 6 x Dean's list, GPA: 3.81/3.88   Apr 2025
- Computer Science Club, Minor in Creative Writing   Pittsburgh, PA

Professional Experience

Application Architect Intern, *Deltek* 🔗   Jun 2024 –
- Designed and implemented a scalable, cloud-native multi-tenant management utility   Present
- Created enviorment-specific *Kubernetes* (*K8s*) deployments using custom *Helm charts*   Remote
- Leveraged *K8s* custom resources and informers for real-time tenant config updates
- Optimized resource utilization with tenant-configured *HikariCP* connection pools
- Developed RESTful APIs with *Jakarta EE* and *MicroProfile* for tenant administration
- Built UML diagrams to visualize the microservices architecture and data flow
- Presented and demoed the utility, earning positive feedback from engineering execs

Software Engineer, *Forevergreen* 🔗   May 2024 –
- Drove front-end development on key screens, including the dynamic home tab   Present
- Engineered a cross-platform notification system using *Firebase Cloud Messaging*   Pittsburgh, PA
- Developed a profile management system enabling user account personalization
- Created an email referral system using deferred deep-linking for accurate analytics
- Optimized app-wide styling for performance and responsive multi-platform visuals

Endpoint IT Technician, *University of Pittsburgh*   Mar 2023 –
- Assisted in deploying the campus-wide *Palo Alto GlobalProtect* network   Present
- Utilized *TeamDynamix*, *Microsoft Intune*, and *BlueCat* to resolve cases daily   Oakland, PA
- Simplified complex technical concepts into user-friendly language for faculty

Personal Projects

CareerVue, *AI-Powered Job Application Monitor* (*Python/CustomTkinter/SQLite*) 🔗   Aug 2024 –
- Implemented Natural Language Processing (NLP) to dynamically categorize and   Present
  extract key information from job-related emails
- Engineered a backend system with *SQLite*, local JSON-based caching for credentials,
  and robust connection handling
- Introduced multithreading to handle seamless background email processing
- Designed a responsive, dynamic, multi-platform GUI with *CustomTkinter*

Clear Meals, *Mobile Meal Tracking App* (*TypeScript/Expo/Firebase*) 🔗   Jun 2024 –
- Empowered users to manage daily meal logs and analyze nutrient breakdowns   Present
- Designed an intuitive user interface with real-time nutritional calculations for
  effortless meal logging, food searching, and historical data access
- Integrated the *FatSecret* REST API with OAuth 2.0 via *Firebase Cloud Functions* to
  provide users secure access to the world's largest food database
- Implemented a powerful user authentication and data management system using
  Firebase Authentication and Firestore

Technical Skills

Languages: Java, Python, JavaScript/TypeScript, 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