

Mark Bosco

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Education

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| Bachelor of Computer Science, University of Pittsburgh <ul style="list-style-type: none">7 x Dean's list, Cumulative GPA: 3.84Computer Science Club, Minor in Creative Writing | Aug 2021 – Apr 2025 Pittsburgh, PA |
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Professional Experience

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| Application Architect Intern, Deltek ⓘ <ul style="list-style-type: none">Utilized <i>Kubernetes (K8s)</i> to automate deploying, scaling, and managing containerized appsArchitected a distributed, hierarchical, config manager microservice with <i>Helidon MP</i>Designed REST APIs for CRUD operations, versioning, backups, and watch notificationsImplemented real-time application metrics and performance monitoring using <i>MicroProfile</i>Optimized <i>Oracle</i> database resource usage with multi-tenant <i>Hikari</i> connection poolingPresented technical solutions to leadership, driving adoption of cloud-native technology | Jun 2024 – Dec 2024 Remote |
| Software Engineer, Forevergreen (Startup) ⓘ <ul style="list-style-type: none">Drove full-stack agile development of key screens, including the high-traffic home tabBuilt a profile management system enabling account personalization using <i>Cloud Storage</i>Developed an email referral system with deferred deep linking for accurate analyticsEngineered an <i>iOS/Android</i> cloud notification system, boosting user engagementOptimized app-wide styling for performance and responsive multi-platform visuals | May 2024 – Present Pittsburgh, PA |
| Endpoint IT Technician, University of Pittsburgh <ul style="list-style-type: none">Deployed the campus-wide <i>Palo Alto GlobalProtect</i> network, enhancing cybersecurityResolved intricate IT cases daily using <i>TeamDynamix</i>, <i>Microsoft Intune</i>, and <i>BlueCat</i>Translated complex technical concepts into user-friendly language for diverse faculty | Mar 2023 – Present Oakland, PA |

Personal Projects

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| Pitt Drip, AI-Powered Wardrobe Assistant (TypeScript/React Native/Express) ⓘ <ul style="list-style-type: none">Developed <i>React Native</i> frontend with authentication, routing, and database integrationCreated interactive screens for closet management, outfit suggestion, and clothes scanningImplemented AI pipeline for outfit recommendations using <i>OpenWeather</i> and <i>Gemini</i> APIsCollaborated efficiently to deliver a functional app within a 16-hour hackathon timeframe | Sep 2024 – Sep 2024 |
| CareerVue, Automated Job Application Tracker (Python/CustomTkinter/SQLite) ⓘ <ul style="list-style-type: none">Categorized and extracted key information from job-related emails using the <i>OpenAI</i> APIEngineered a backend with JSON-based caching, <i>SQLite</i>, and robust connection handlingLeveraged multithreading for background email processing, improving performanceAssembled a responsive and dynamic cross-platform GUI with <i>CustomTkinter</i> | Aug 2024 – Present |
| Clear Meals, Mobile Meal Tracking App (TypeScript/Expo/Firebase) ⓘ <ul style="list-style-type: none">Solo developed app for daily meal logging, nutrient analysis, and historical diet trackingDesigned a streamlined UI for searching, calculating, and viewing nutritional informationEmployed the <i>FatSecret</i> REST API with OAuth 2.0 via secure <i>Firebase Cloud Functions</i>Integrated user verification and data management with <i>Firebase Authentication</i> and <i>Firestore</i> | Jun 2024 – Present |

Technical Skills

Languages: Java, Python, JavaScript/TypeScript, C#, C/C++, HTML/CSS, Bash, SQL
Tools: Git, Figma, LucidChart, Docker, Postman, Minikube, Gradle, Selenium, DBeaver, Prometheus, Grafana
Tech: K8s, MicroProfile, Jakarta EE, HikariCP, SQL DBs, etcd, Linux, Maven, JUnit, React Native, Firebase