

Frank Loewenich

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Senior Mobile Developer

Professional Summary

An experienced software engineer with expertise in developing a broad range of software applications, from enterprise applications to graphically intense games, image, and speech processing, as well as artificial intelligence. Strengths in mobile software development, and commercial experience with iOS and Android mobile application development. Worked on all phases of the software development lifecycle for enterprise clients on behalf of consulting firms, local government and small business. Known for effectively interact with team, UX Designers, Business Analysts and Testers to continuously improve the user experience, functionality and stability of mobile applications.

Education

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| Master of Artificial Intelligence and Robotics – currently studying | Queensland University of Technology, Australia |
| Bachelor of Information Technology (Honors) | Queensland University of Technology, Australia |

Areas of Expertise

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| <ul style="list-style-type: none">• UI/UX Design & Development• Commercial iOS & Android Development• App Store Publication - Android & Apple TV apps• Swift, Objective-C, Kotlin & Java Commercial Dev• CI/CD using Azure DevOps• Agile methodologies• Web Services (Rest, JSON, AWS, Apigee) | <ul style="list-style-type: none">• Issue & Project Tracking (JIRA & Confluence)• Git & GitHub• Conceptual, Analytical & Problem Solving• Stakeholder Management• Strong Written & Verbal Communication Skills• Cloud Computing (AWS)• Containerisation Tooling – Docker |
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Key Achievements

- ✓ CBRE Host suite of 65 client-branded tenant experience, iPad Point-of-Sale and Apple TV apps
- ✓ Implemented and maintained scripts and schedules for 65+ app CI/CD pipelines, along with code reviews and coordinating feature merging to GitHub master branch
- ✓ Sunsuper for iOS and Android
- ✓ Developed Domino's Offers for iOS and Android
- ✓ the Lott – Australia's Official Lotteries by Tatts Group
- ✓ App Store publication of 80+ iOS, Android and Apple TV apps

Career History

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|---------------------------------------|---|----------------------------|
| CBRE Pty Ltd | iOS Development Lead | Feb 2018 – Oct 2023 |
| Sunsuper | Senior Mobile Developer (Contract) | Feb 2017 - Feb 2018 |
| Domino's Pizza Enterprises Ltd | Senior Mobile Developer (Contract) | Oct 2016 – May 2017 |
| Tatts Group | Senior iOS Developer (Contract) | Jun 2016 – Oct 2016 |

Professional Experience

Research Assistant – Mobile Development Lead – AI Research | Queensland University of Technology | Dec 2023 –

- Implement a mobile application front-end for a mobile robot assistant.
- Utilise speech recognition and synthesis for user interaction.
- Real-time two-way communication using CycloneDDS with backend services.

iOS Developer Lead | CBRE Pty Ltd | Feb 2018 – Oct 2023

- Lead the iOS team's development and manage release cycles for a suite of 65 custom-branded mobile apps.
- Participated in management meetings ensuring roadmap targets are met on time.
- Performed code reviews and take responsibility for merging all feature branches, always maintaining the integrity of the develop and master branches.
- Implemented and maintained CI/CD pipelines in Azure for each app target.
- Implemented new features and support existing features of the CBRE Host iOS apps.
- Developed and maintained the CBRE – Vendor POS iPad and Pulse Vision Apple TV apps.
- Interacted with web services to perform data synchronisation and real-time financial transactions.

Senior Mobile Developer (Contract) | Sunsuper | Jun 2017 – Feb 2018

- Implemented new features and maintain existing functionality in the Sunsuper app, both for iOS and Android.
- Coordinated the SDLC for the iOS and Android applications, including testing and release management.
- Used Sourcetree, Git, and Visual Studio Team Services for source control.
- Used HockeyApp for managing the internal deploy process for our QAs.
- Interacted with Apigee APIs and web services to perform real-time transactions.
- Applied Agile methodology.

Senior Mobile Developer (Contract) | Domino's Pizza Enterprises Ltd | Oct 2016 – May 2017

- Implemented new features and fix issues in Domino's Offers app, both for iOS and Android. This included the AU/NZ as well as the EU version.
- Contributed to key features for the DRU ASSIST project.
- Wrote unit tests to fully cover any code changes.
- Used Sourcetree, Git, and Visual Studio Team Services for source control.
- Used TeamCity for continuous integration.
- Interacted with web service APIs to perform real-time transactions.
- Worked as part of a team of iOS and Android developers, testers and Business Analysts.
- Applied Agile methodology.

Senior iOS Developer (Contract) | Tatts Group | Jun 2016 – Oct 2016

- Implemented new features in Swift, largely using custom-designed controls
- Wrote unit tests to fully cover any code changes
- Used Sourcetree and Git for source control
- Used TeamCity for continuous integration
- Interacted with web service APIs to perform real-time transactions
- Worked as part of a team of iOS and Android developers, testers and Business Analysts
- Applied Agile (Kanban) methodology
- Worked with a complex, mixed Objective-C and Swift codebase

Publications

Motion-Tracking and Speech Recognition for Hands-Free Mouse-Pointer Manipulation. Speech Recognition. ISBN: 9789537619299. IN-TECH Publishing.

A Head-Tracker Based on the Lucas-Kanade Optical Flow Algorithm. Frontiers in Artificial Intelligence and Applications. ISBN: 9781586036157. IOS Press.

Conferences

Loewenich, Frank & Maire, Frederic (2007) **Hands-Free Mouse-Pointer Manipulation Using Motion-Tracking and Speech Recognition.** In 2007 Conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer human interaction, 28 November 2007, Adelaide, Australia.

Loewenich, Frank & Maire, Frederic D. (2006) **A Head-Tracker based on the Lucas Kanade Optical Flow Algorithm**. In Li, Yuefeng, Looi, Mark, & Zhong, Ning (Eds.) Active Media Technology 2006, June 7-9, 2006, Brisbane, Australia.

Loewenich, Frank & Maire, Frederic (2005) **Dawn Explorer: A Framework for Multimodal Accessibility to Computer Systems**. In Bentley, T & Balbo, S (Eds.) OZCHI 2005: Citizens Online: Considerations for Today and the Future: Interactive CD Proceedings, 21 November - 25 November 2005, Australia, Australian Capital Territory, Canberra