

# Frank Loewenich

Experienced mobile software engineer focused on building accessible solutions

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## About Me:

I am currently studying full time in the Master of Artificial Intelligence and Robotics course at QUT. In my last role as Principal Software Engineer at CBRE, I was responsible for leading the iOS team in their coordination of the software development lifecycle for the entire suite of CBRE Host Tenant Experience mobile applications. The CBRE Host app-portfolio encompasses 65 branded mobile applications. I also develop proof-of-concept prototypes, most recently a point-of-sale iPad application with a custom interface to an Epson Bluetooth-enabled printer. In my daily work I interact with my team, UX Designers, Business Analysts and Testers to continuously improve the user experience, functionality and stability of CBRE Host mobile applications.

## Education:

- Enrolled in **Master of Artificial Intelligence and Robotics**  
*Queensland University of Technology, Australia*
- 2006 - **Bachelor of Information Technology (Honors)**  
*Queensland University of Technology, Australia*

## Experience:

- 12+ years of experience with commercial iOS and Android development
- 16+ years of experience as a developer
- App Store publication of 80+ iOS, Android and Apple TV apps
- Commercial experience developing in Swift, Objective-C, Kotlin and Java
- Experience with CI/CD using Azure DevOps
- Experience working in teams using Agile methodologies.
- Experience interacting with web services (Rest, JSON, AWS, Apigee)
- Issue and project tracking (JIRA & Confluence)

## **Achievements:**

- CBRE Host suite of 65 client-branded tenant experience, iPad Point-of-Sale and Apple TV apps
- Implement and maintain 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
- Domino's Offers for iOS and Android
- the Lott – Australia's Official Lotteries by Tatts Group
- Sally & Possum Season 1 & 2 – iPad game for hearing impaired early learners.
- My Optus app for Optus customers
- LEAP Mobile legal matter management for law firms

## **Employment:**

### **Feb 2018 – Oct 2023**

Organization: CBRE Pty Ltd

Role: iOS Development Lead

#### DUTIES

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

### **Jun 2017 – Feb 2018**

Organization: Sunsuper

Role: Senior Mobile Developer (Contract)

#### DUTIES

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

- Apply Agile methodology

### **Oct 2016 – May 2017**

Organization: Domino's Pizza Enterprises Limited

Role: Senior Mobile Developer (Contract)

#### DUTIES

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

### **Jun 2016 – Oct 2016**

Organization: Tatts Group

Role: Senior iOS Developer (Contract)

#### DUTIES

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

### **May 2015 – Jun 2016**

Organization: Khemistry

Role: Senior Mobile Developer

#### DUTIES

- Developed Sally & Possum Season 1 & 2 for the iPad.
- Work with graphic designers, UX designers and digital producers to interpret requirements into technical specifications
- Attend meetings clients and management to provide technical advice
- Responsible for managing entire software development lifecycle

### **Dec 2014 – May 2015**

Organization: SingTel Optus

Role: Senior iOS Developer (Contract)

#### **DUTIES**

- Working as part of a team to implement new features for the 'My Optus'-apps for iPhone and iPad
- Develop proof-of-concept apps, including apps for the Apple Watch
- Version control using Git (Gitflow)
- Participate in daily stand-ups to report on progress
- Consult with our Quality Assurance team and address issues in a timely manner.
- Mentoring junior developers

### **Jan 2013 – Dec 2014**

Organization: LEAP Legal Software Pty Limited

Role: Lead iOS Developer

#### **DUTIES**

- Managing the software development lifecycle for the LEAP Mobile apps
- Hold regular meetings with managers of other development teams to ensure the LEAP Mobile app integrates seamlessly with LEAP on other platforms, both for existing and planned features.
- Consult with our Quality Assurance team and address issues in a timely manner.
- Coordinate beta distribution, as well as the App Store approval and distribution process

### **Aug 2012 – Jan 2013**

Organization: Liverpool Plains Shire Council

Role: Mobile Application Developer (Contract)

#### **DUTIES**

- Developed an iOS app for logging the type and location of weed infestations in regional Australia. The app also features GPS path-tracking, so that council can easily distinguish areas that have been checked for weeds, and Dropbox synchronisation so that data collected in remote areas is available immediately to council staff.
- Developed an iOS app for water-meter reading. The app features navigation to nearest water meter, manual- as well as photo-logging of current meter reading, and updating of water-meter location.

## Apr 2007 – Aug 2012

Organization: Institute of Health and Biomedical Innovation, Queensland University of Technology

Role: Application Developer, .NET, Mac OS X and iOS

### DUTIES

- Developed optical character recognition (OCR) using iPhone built-in camera to automate extracting of nutrient composition from the nutrition information panel found on supermarket foods.
- Developed iPhone app to measure calorie consumption and bodyweight in research subjects. The app features a barcode scanner, graphs to visualise calorie consumption and bodyweight over time, and wireless database updates via the Internet.
- Developed iPhone app for tracking daily walking/running activity in research subjects using accelerometer and GPS
- Developed Mac OS X desktop application to centrally manage food database and collect research data. The application is also able to produce custom QR code barcodes for unique food items or recipes.
- Development of survey tools for Microsoft Windows XP and Windows Mobile 5 in C#.

## Publications:

### Book Chapters

- **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.