

# Paween Itthipalkul

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## EDUCATION

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**University of San Francisco**

San Francisco, CA

Bachelor of Science, *cum laude*, Computer Science, Minor in Chinese Studies, May 2010

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## WORK EXPERIENCE

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**Software Development Engineer II**

San Francisco, CA

April 2013 – Present

*Amazon Music*

**Software Development Engineer I**

*(subsidiary of Amazon.com)*

July 2010 – March 2013

**Amazon Music with Prime Music for iOS:** Engineering lead for Amazon Music for iOS application.

- Implement HTTP Live Streaming for audio, DRM for offline music playback
- Build custom JavaScript bridge allowing native iOS application to seamlessly communicating with web application within UIWebView.
- Design and implement deep linking and push notifications.
- Re-design application migration code, and start up code to improve reliability and performance.
- Main engineer working on Prime Music international expansion.
- Design and implement Prime Music browsing experience natively in the application.
- Develop and maintain various internal tools; e.g. tool for iOS app distribution, operational metrics collection, deep linking helper.
- Train engineers on operational excellence on both iOS and Android team.

**Amazon Cloud Player for iOS:** Develop Amazon Cloud Player for iOS, and lead the Cloud Player for iOS team. Amazon Cloud Player allows customers to listen to the music on the cloud on their favorite Apple devices. The application introduces the "side-swipe" feature that reveals additional actions for a particular item. Made important technical decisions on the project such as adopting Objective-C Automatic Reference Counting, migrating from Core Data to SQLite, creating an object relational mapping layer for SQLite <-> Objective-C on top of Objective-C runtime.

**Music Player on Kindle Fire:** Develop the music experience on Amazon Kindle Fire device, including the single sign-on experience, and music store recommendation.

**Amazon MP3 with Cloud Player for Android:** Develop Amazon MP3 with Cloud Player application for Android. Millions of customers are using the application to buy and discover music on their mobile devices. The addition of Cloud Player in the MP3 application allows customers to stream or download their music from Amazon Cloud Player to their Android device.

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## COURSEWORK PROJECTS

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**Distributed iPhone Application for the Dart Game of Cricket:** An iPhone application that kept score for the dart game known as Cricket. The program consists of two parts: a distributed part and a client-server part. The distributed part allows two or more iPhones to connect to each other directly and score the same game. The client-server part authenticates users and stores game statistics.

**Distributed File Sharing System:** A file sharing application written in Java using the RESTlet framework and XSLT. User's authentication is done through Google accounts and the service can access Google Documents. The system allows for files to be backed up and restored across multiple computers using automatic synchronization.

**MOTEL Runtime Environment Research:** Research in distributed mobile computing focusing on Android platform. Research topics include: Bluetooth-based discovery and communication between smartphones using the Android platform, energy consumption during communication using Bluetooth.

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## SERVICE

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President of Thai Students Association (TSA) at University of San Francisco (2008-2010)  
Secretary of Association for Computing Machinery (ACM) chapter at University of San Francisco

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## REFERRALS

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Referral available upon request.