

Arkar Win

Full-Stack Software Engineer

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EDUCATION

Bachelor of Computer Science (Software Engineering)

Dec 2013 - Nov 2018

University of Information Technology (UIT)

- GPA: 3.7/4.0 (A-)

KEY SKILLS

- **Frontend & Frameworks:** Expert in **Angular** (component architecture, reactive forms, RxJS, Angular Material), Skilled in **frontend engineering** with a focus on **clean architecture, responsive UI/UX**, and **accessibility**. Experienced in **TypeScript, JavaScript, Flutter** (multi-flavor setup, state management with Provider/Riverpod/BLoC), and **Ionic** (legacy support using Capacitor/Cordova, Google Maps integration). Proficient in building scalable SPAs, implementing **deep linking (Branch.io)**, **push notifications (OneSignal)**, and custom widget development.
- **Backend & APIs:** RESTful API development, Firebase (Authentication, Firestore, Realtime Database), Firebase Cloud Functions, Firebase App Check, Docker-based API deployment, Node.js, Ruby on Rails
- **Testing & Quality Assurance:** Strong experience with **Angular unit testing using Jasmine and Karma**, Widget & integration testing in Flutter, Unit testing in Ionic, Firebase Crashlytics, performance debugging, error monitoring and issue tracking
- **DevOps & Cloud Services:** Google Cloud Platform (GCP), Cloud VM instance hosting, Docker image creation & deployment, Git & Bitbucket (CI/CD), npm artifact registry, Firebase CLI tools, Flutter build automation, AWS
- **App Distribution & Analytics:** Play Store & App Store deployment, Firebase App Distribution, Version control via Remote Config, Analytics integration (Firebase)
- **Search & Performance Optimization:** Typesense, Algolia, Type-ahead search, Lazy loading, API caching strategies, Performance profiling and memory management in Flutter

- **Project & Collaboration Tools:** Jira (sprint/task management), Confluence (technical documentation), Git-based version control, Slack, Notion
- **Soft Skills:** Research & Fast Learning, Effective Cross-functional Communication, Agile & Scrum methodologies, Problem-Solving, Initiative in Continuous Improvement

EMPLOYMENT

One Atkhayar, Co., Ltd (Yangon, Myanmar)

July 2019 - Present

Junior Developer → Full-Stack Software Engineer

- Led the development and launched consumer apps (**Ionic - Angular Framework**) **Shidel** and **Chat Chin** on App Store, Google Play, and Huawei App Gallery, adding marketplace functionality and app maintenance.
- Designed and built the **Merchant App (Flutter)** for internal business operations and vendor management, focusing on **modular, reusable UI components, multi-platform responsive design**, and **scalable architecture**.
- Built responsive, accessible UI layouts across **iOS and Android** using **Ionic (Angular)**, integrating **Figma** and **InVision** designs into pixel-perfect interfaces with **custom widgets, theme management**, and **consistent design systems**.
- Worked closely with designers to ensure **WCAG-compliant**, user-friendly experiences, and participated in **usability testing** and **UI testing** to validate design intent and interactivity.
- Implemented **multi-flavor ionic app setups** and **CI/CD pipelines** for seamless testing and deployment across staging, and production environments.
- Developed and maintained **unit tests** for **Ionic (Angular)** components and services using **Karma** and **Jasmine**, and applied **node code coverage tools** to ensure quality thresholds and identify untested paths in the codebase.
- Integrated **Firebase services** (Authentication, Firestore, Realtime Database, Cloud Functions in Node.js) with **Remote Config** for dynamic version and feature control without app updates in **Ionic (Angular)**.
- Integrated **backend APIs** (built in Ruby on Rails) to support real-time transactions, content updates, and data syncing.
- Deployed and maintained **Docker-based APIs** on **Google Cloud VM Instances**, ensuring performance, reliability, and scalability of backend infrastructure.
- Configured **OneSignal** for push notifications and **Branch.io** for deep linking, improving user engagement, retention, and cross-channel activation.
- Developed fast, intuitive **type-ahead search components** using **Typesense** and **Algolia**, boosting discoverability and search relevance.
- Used **Git**, **Bitbucket**, and **Sourcetree** for version control, led **code reviews**, and managed **Jira sprints** and tasks to deliver features in agile cycles.
- Authored and maintained **technical specs, flow diagrams**, and **system documentation** in **Confluence**, improving team communication and onboarding.

- Integrated **npm artifact registry** to streamline package reuse across **Ionic (Angular)** apps, improving maintainability and development speed.
- Researched and resolved complex Ionic (Angular) issues independently, improving **performance, crash resilience**, and cross-platform edge case handling (e.g., permissions, background services).
- Applied **state management** patterns like **Provider, Riverpod**, and **BLoC** for scalable, maintainable front-end architecture in Flutter for Merchant App.
- Implemented **Clean Architecture** in Flutter by separating **presentation, domain**, and **data** layers, using principles like **dependency inversion, use case abstraction**, and **repository pattern**.
- Self-taught and resolved advanced issues in **Ionic - Angular Framework, Flutter** contributing to performance profiling, bug fixing, and platform-specific optimizations (e.g., background services, permissions).
- Continuously contributed to **code quality, maintenance** and **bug fixing** in both **Ionic-Angular and Flutter**, taking ownership of platform-specific edge cases

Innovative Global Wave Technology - Yangon, Myanmar

Junior Developer

June 2018 - March 2019

- Built a **Blood Donation Web Application** using **Angular 6, C# .NET**, and **SQL**, focusing on responsive design, real-time donor data updates, and secure form submissions.
- Researched and documented development patterns for **Angular 6 and Angular 7**, producing internal guides and architecture references for a blood donation platform with team collaboration.
- Created an **Admin Dashboard (Angular)** for **Microfinance Data Visualization**, implementing **dynamic charts** (e.g., bar, line, pie) using libraries like **Chart.js** and **ngx-charts** to represent loan performance, repayment history, and customer distribution.
- Developed **Angular unit tests** using **Karma and Jasmine**, ensuring robust test coverage for components and services; applied code coverage tools to monitor and maintain quality thresholds across builds.
- Contribute **data export features** for microfinance applications, enabling efficient downloading of transaction lists and loan history in Excel and CSV formats.
- Managed and maintained **backend APIs** for Microfinance solutions, integrating with **C# .NET** services and handling secure data operations.
- Collaborated on **YCDC (Yangon City Development Committee)** payment gateway system, building and testing **.NET backend APIs** and contributing to **unit testing** for financial transaction reliability.

PROJECTS

University of Information Technology (UIT) – Master Degree Thesis

Morse Code Audio Recognition using LSTM-CTC Model

February 2023

- **Research Proposal Paper:** <https://ieeexplore.ieee.org/document/10181830>
- Developed a deep learning model to recognize Morse code from audio using **Long Short-Term Memory (LSTM)** networks.
- Created a custom Morse code audio dataset by converting text characters into audio signals.
- Utilized **Mel-frequency Cepstral Coefficients (MFCCs)** for feature extraction from audio.
- Applied **Connectionist Temporal Classification (CTC)** for accurate sequence-to-label mapping.
- Aimed to support audio-based Morse code interpretation, especially for emergency (SOS) applications in maritime communication.
- Technologies: Python, TensorFlow/Keras, Audio Processing, LSTM, MFCC, CTC

University of Information Technology (UIT) – Data Mining Course

Rain Prediction System

October 2017

- Developed a predictive model to forecast rainfall using historical weather data and data mining techniques.
- Cleaned and preprocessed datasets including temperature, humidity, wind speed, and pressure readings.
- Applied classification algorithms Naive Bayes to analyze patterns and improve prediction accuracy.
- Demonstrated proficiency in data handling, feature engineering, and model evaluation for real-world meteorological data.

University of Information Technology (UIT) - Security & Risk Management

Password Cracking Project

September 2018

- To simulate password attacks using tools such as Ophcrack.
- Gained practical understanding of brute-force, dictionary, and rainbow table attacks.
- Learned the importance of password hashing, salting, and rate limiting.
- Discovered how attackers exploit weak or reused passwords.
- Delivered a simulated password-cracking system to demonstrate real-world vulnerabilities.
- Developed a secure login module with enforced strong password policies.
- Provided a report on system resilience recommendations.

Zipline Safety Analysis

December 2019

- Conducted a comprehensive system safety analysis of a zipline attraction using methodologies like Preliminary Hazard Analysis (PHA), Failure Modes and Effects Analysis (FMEA), and Fault Tree Analysis (FTA).
- Identified critical failure points, contributing factors, and assessed risk levels associated with mechanical components, user interactions, and environmental variables.
- Proposed design and operational mitigations to enhance user safety and system reliability.
- Applied system safety lifecycle concepts including hazard identification, risk assessment, and safety verification.
- Collaborated in a team environment to document findings, develop safety cases, and present risk mitigation strategies.

CERTIFICATES and OTHER QUALIFICATIONS

- System Development Workshop, Fujitsu **2017**
- Information Technology Passport Examination, ITPEC & MCF **2017**

REFEREES

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