ZACHARY CHEN

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PROJECTS

Tern Travel Planner App, *Swift*
- Built an extensive Swift iOS application end to end to create and share efficient travel itineraries.
- Integrated Firestore (NoSQL Database) and MVVM architecture for scalability and data persistence.
- Used Programmatic UI + Autolayout, Git, Cocoapods, XCTest, and OAuth for maintainability and security.
- Added 3rd party frameworks, contextual onboarding, animations, and gesture recognizers for a smooth UX.
- Designed state model controller that interacted with concurrent network layer to synchronize multiple tabs.
- Detected memory leaks with the memory graph debugger; removed them by breaking strong retain cycles.

Analytics SDK, *Swift*
- Designed framework that automatically tracks user behavior without having to identify interactions up front.
- API user deploys one line of code to enable automatic tracking of all user interactions.

Weather Monitor, *Swift*
- Retrieved location based data from OpenWeather API via URLSession and displayed results in a table view.

Spending Tracker, *Swift*
- Created a tracker using MVVM architecture and a table view with dynamic section (category) headers.

Ants vs. Bees Tower Defense, *Python*
- Created Plants vs. Zombies styled PC game using object-oriented design and inheritance.

EXPERIENCE

Compliance Engineer   Koi Trading   *January 2019 - Present*
- Built iOS app in Swift to collect customer onboarding information used for anti-money laundering (AML) by compliance teams. Created data models for customer types to be ported through backend APIs.
- Added language internationalization, MVC architecture, and localized JSON text retrieval for scalability
- Used Programmatic UI + Autolayout, Git, and HTTPS for maintainability and security.
- Increased customer insight by creating Python scripts to analyze JSON customer data via HTTPS requests and generate a CSV file for additional analysis in Excel.

Compliance Analyst, 2nd employee   HBUS Holdco, Inc.   *March 2018 - January 2019*
- Improved pipeline efficiency by 150% by managing, refining, and formalizing (1) compliance token listing process (main product), and (2) retail, institutional, and market maker customer onboarding.
- Reduced daily costs by $500+ by analyzing customer data on Excel to automate screening and worked with other teams to systematically reduce fraud, improve UX, and maintain compliance requirements.

Marketing Associate   HBUS Holdco, Inc.   *December 2017 - March 2018*
- Increased website user engagement by 10% by creating a 60 page website audit to improve UX for US users. Adjusted words and graphics to match US customer expectations.

EDUCATION

Pepperdine University   *April 2017*

Bachelor of Science in Finance. *Departmental GPA 3.72, Dean's List Spring 2017.*
- Shanghai International Program 2014 - 2015. East Africa International Program May 2016.

Triplebyte Certified iOS Engineer: Technical interview included building a sample app, iOS questions, web fundamentals, data structures & algorithms, and mobile app design. Passed in the 98th percentile.

Independent Coursework: *Composing Programs. Grokking Algorithms. Introduction to Algorithms (CLSR).* Various MOOCs. Stack Overflow (contributed 16+ posts).

LANGUAGES AND TECHNOLOGIES

Swift. Python. Xcode. Git. NoSQL. Adobe Suite. *Familiar:* Objective-C. HTML/CSS. JavaScript. Java.