

# Tangent Chang

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*Master of requirement analysis and functional specification.*

## EDUCATION

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**M.S., Software Management, Carnegie Mellon University**, Dec. 2015. GPA 3.7.

**B.A., Library and Information Science, National Taiwan University**, 2008. GPA 3.54.

## EXPERIENCE

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**Khaylo, Inc.** *Startup company developing an iPhone app to track activity and fitness.*

Project Manager Intern – San Francisco, CA

2015

- Reduced project management cost by implementing Jira and Jira Agile in a 10-person team successfully, and adapted proper Jira issue tracking workflow based on current organizational context and needs.
- Created test plan/use case documents reducing test effort for new version release for distributed test teams.
- Implemented proper solution for reversing ER diagram from MongoDB automatically, which clarifies software architecture and mitigates on-boarding effort in a highly turnover out-sourcing team.
- Performed batched download and file merge via Selenium and AppleScript.

**ClarIDy Solution Inc.** *Provide in-house Integrated Library System capable of managing millions of books and items.*

Project Manager – Taiwan

2010 – 2013

- Contributed 1% revenue by launching 7 web systems in 3 years.
- Managed multiple projects simultaneously among cross-functional teams (engineering, design, sales), from clarifying clients' needs, drawing UML diagram and wireframe, composing functional specification documents, defining test plan and scenarios and acceptance criteria, conducting black-box test, and inspecting program root cause.
- Guided clients to recognize real needs and modified system designs to achieve business goals, such as increasing clients' library use rate by introducing more user interactive features in online catalog of a 20-year system.
- Strategically analyzed requirements with UML and followed RUP workflow to deliver systems on time with high client satisfaction and a 90% reduction in client workload.

## PROJECTS

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**AirDice**

2015

- A monopoly-like iOS game app based on micro location technology to improve passengers' airport experience.
- Led the project with 6 people, and approached issues energetically, including: negotiating project scope with advisor and stakeholder, building roadmap, recruiting developers, conducting user interviews.
- Continuously produced wireframe and mockup with Balsamiq.
- Expressed location based game business value to stakeholders via impressive live demo in Emirates Hackathon.
- Completed MVP one month earlier than schedule hence got time to conduct usability test and refine it.

**Twitter Analytics Web Service**

2015

- Utilized Java and AWS (EC2, EMR, ELB, HBase, MySQL) to parse and query Twitter big data set (1TB).
- Developed REST web services in Java that retrieve data from MySQL and HBase and respond to various types of queries.
- Passed the full performance tests, ranking 39th in the final live test among 72 teams.

## SKILLS

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**Language:** Java, Python, CSS, HTML, UML, SQL

**Tool:** Jira, Balsamiq, Star UML, MS Office, MS Visio, Google Doc, Photoshop, IntelliJ, Git/GitHub, Selenium

**Software Development Lifecycle:** Agile, Lean, RUP, Waterfall

**Requirement Management:** requirement analysis, user story, persona, wireframe, UML diagram, use cases, test scenario, acceptance criteria

**Misc.:** AWS, Entity-Relationship model, cross-functional team cooperation, MySQL, project management