

MIN "IVY" XING

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EDUCATION

Bowdoin College, Bachelor of Arts
Double Major: Mathematics and Computer Science

Graduated May 2015
Cumulative GPA: 3.85

Honors: Dean's List every year; Math Department nominee for membership at two national math societies (AWM and SIAM)
Course Highlights: CS: Data Structures, Algorithms, General AI, Nature-Inspired AI, Operating Systems, OSS Development, Security, Optimization and Uncertainty, Computational Geometry; MATH: Combinatorics, Modeling, Intermediate Linear Algebra, Analysis

Make School, Founding Class Member

July 2014 – Jan 2015

iOS Development: iOS fundamentals, design patterns, app and game development, Core Data, server basics, app design and marketing
Computer Science Theory: data structures, algorithms, memory management, bit manipulation, sorting and searching, multithreading

COMPUTER SKILLS

Languages: Extensive experience in Swift, Objective-C, Java; experience in C, Python, PHP; exposure to JavaScript, HTML, CSS

Knowledge: Mobile/game/web development, machine learning, data mining, Unix, databases, security, quality assurance

Tools: MySQL, Git, Node.js, MongoDB, Heroku, SpriteBuilder, SoapUI, Mathematica, Xcode, Vim, Emacs, Eclipse, Sublime

PROJECTS

- ePlan: Developed a collaborative event planning iOS application in Objective-C, integrating Core Data and server backend
 - Melonace: Designed, coded, and shipped an iOS grid puzzle game in Objective-C with interactive user tutorial and high score
 - Built a Feedforward Backpropagation and a K-Nearest Neighbors neural network in Java for solving CAPTCHAs
 - Contributed to Ronald McDonald House's PHP website backend and worked with its managers to schedule volunteers online
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EXPERIENCE

Dote Shopping, Lead iOS Engineer

June 2017 – Present

- Rewrote and built most of the app as the only client engineer, migrated from pure Objective-C to 85% Swift within a year
- Built new and redesigned core features like Social Feed, Loyalty, Search & Filter, Contests, etc. while extensively refactoring
- Built low-latency dual live streams with live chat, streaming camera view while showing current app screen using ReplayKit
- Switched codebase from OOP to Protocol Oriented Programming, switched entire app from manual to auto layout with xibs
- Guided engineering prioritization and roadmapping, headed releases and negotiated product-engineering trade-offs and timeline
- Collaborated closely with backend, PM, and designer, became the team's trusted resource for cross-functional communication

Edmodo, Inc., iOS Engineer

June 2015 – June 2017

- Built and rewrote most core features like Assignment Center, Post Composer, Groups, Communities, and Shared Extension
- Migrated the app from Objective-C to Swift, restructured navigation architecture, mentored junior and new engineers
- Migrated the client to use an entirely new backend and coded extensively in networking layers with comprehensive unit tests
- Learned and worked on the backend and became the team's trusted resource for server side communication and collaboration

L.L.Bean, Inc., Software Quality Assurance Intern

May – August 2013

- Tested and automated test suites for web services; participated in defining strategies, requirements gathering, and design review
- Extra projects: Developed Common Gate Interfaces using SQL queries to look up coupons, sales, and user information

Bowdoin College Computer Science Department, Independent Researcher

October 2011 – May 2012

- Mined and streamed massive data from Twitter using Python scripts and persisted the data in MySQL database
 - Analyzed relationships between a doctor and his followers on Twitter to infer each follower's trust level on the doctor
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LEADERSHIP AND ACTIVITIES

Young Leaders 3.0, Book Contributor, <http://www.youngleaders3.com/>

August 2013 – November 2014

- Wrote on overcoming family hardships in *Young Leaders 3.0*, a collection of inspirational stories from 24 young leaders

Bowdoin College International Club, President

September 2011 – May 2014

- Led 12 officers and over 200 members, planned monthly activities, organized large-scale events, created new club traditions

Fullbridge Program, Awarded MVP on the top team

January 2013

- Intensive two-week team-based program in communication, business research, financial analysis, valuation, and management

California Annual Nobel Laureate Dinner, Student Presenter

November 2010

- Presented a cryptography project to 10 Chemistry and Physics Nobel Laureates and to UC board members and professors