

MICHAEL (TZU-YIN) CHEN

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EDUCATION

Northwestern University, Evanston, IL // GPA: 3.84 // Magna Cum Laude

Graduation: June 2015

- Major in Biological Sciences, Minor in Computer Science, Certificate in Entrepreneurship
- Programming Languages: Java, Python, C++, Node.JS, Ruby on Rails, MySQL, MongoDB, HTML, CSS, JavaScript
- Relevant Coursework : Machine Learning, Data Structures, Computer Systems
- Awards: Weinberg Advisory Board: Computer Science, Undergraduate Research Grant, Dean's List

WORK EXPERIENCE

Software Engineer, Front-End & Software Product Designer // IBM

June 2015 - Present

- Joined IBM Analytics Platform and worked on Next-Gen Workbench & Apache Zeppelin (Open Source)
- Worked on enterprise software as well as created and launched financial mobile app for executives and clients
- Recipient - *IBM Outstanding Innovation Award (Dec 2015)* for creating innovative software & helping to reinvent IBM

Technical Teaching Assistant // Northwestern University (NUvention Web & Fundamentals of CS)

Jan. 2015 - June 2015

- Advised teams in launching startups and best practices on technology, code reviews, and product management
- Hosted office hours to explain fundamental computer science concepts as well as grade and debug students' projects

Software Engineering Intern (Ruby on Rails) // HealthEngine

September 2014 - December 2014

- Worked on v2 of the HealthEngine Search App and created new features such as location mapping and mobile
- Refactored legacy code, wrote unit tests, optimized features for faster development cycles and performance

Software Engineering Intern (Python) // 4C Insights

June 2014 - September 2014

- Developed algorithms and modeled data on auto-optimization for ad insights from analysis and engagement
- Created a pipeline that collected Facebook ad activity & statistics for modeling and proprietary algorithm analysis

Software Bioinformatics Intern (Python) // MD Anderson Cancer Center

June 2013 - September 2013

- Created a computational pipeline that sequenced human genetic data and statistically corrected data for analysis
- Analyzed genome wide interactions and visually plotted to explore detection of cancer from genomic architecture

LEADERSHIP & PROJECT EXPERIENCE

EPIC (NU Student Entrepreneurship Organization) // Co-President & VP of Technology

March 2013 - April 2015

- Led over 40 students to create hackathons, entrepreneurship development programs and pitch competitions.
- Created the technology team to build 5+ web projects & implemented a workflow to streamline production
- Founded Northwestern's largest hackathon (WildHacks), which had 450+ students hack & over \$70,000 of funding
- Raised and managed over \$150,000 of sponsorship dollars for the organization and its programs

Projects: Web Applications // HTML, CSS, JavaScript, Angular.JS, Node.JS, Ruby on Rails, MySQL, MongoDB

- PackHire // **Lead Software Engineer & Product Manager (Ruby on Rails, MySQL)** April 2015 - June 2015
 - PackHire is a platform that helps companies find great hires through the power of referrals. It includes social media integration, referral tracking, algorithm scoring of candidates based on graph networks
- SEAM // **Software Engineer & Product Manager (Node.JS, MongoDB)** January 2014 - June 2014
 - SEAM is a platform that enables teams to solve meeting inefficiencies from planning to meeting notes. It includes real-time communication (Socket.IO), timer functionality, auto generation of notes and emails

Projects: Data Science & Bioinformatics // Java, Python, C++, MySQL

- PITCH (Python): A bioinformatics tool that visualizes genetic mapping and analysis of patterns in cancer detection
- FLYSTAT (Java): A statistical tool that allows genetics lab members to streamline analysis on large sets of data
- 4C Insights (Python): A pipeline that pulls data from Facebook & auto-optimizes for ad sales based on engagement