Phoenix PAN

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Location: Sydney, Australia

EDUCATION

Carnegie Mellon University, Pittsburgh & Adelaide   2015 - 2017
Master of Science in Information Technology   GPA: 3.8/4.3
Honors: *Dean's List (2015-2017); Graduated with Distinction*

University of Indianapolis, Indianapolis   2012 - 2014
Bachelor of Arts in International Business   GPA: 3.9/4.0
Honors: *Dean's List (2012-2014)*; *Graduated Summa Cum Laude (Highest Distinction)*

TECHNICAL SKILLS

Backend: Java, Spring, JUnit, Hadoop, Python, C#
Frontend: JavaScript, Angular2, HTML5, CSS3, jQuery, Bootstrap4
Database: MySQL, Oracle, MongoDB, HBase
Tools: Git, Amazon Web Service, Maven, IntelliJ, Android Studio

PROFESSIONAL EXPERIENCE

Government of South Australia, Full-stack Developer, Adelaide   Jan 2017 – May 2017

Our team signed up to develop a mobile voting app for the SA Government's fundraising activity of $1 million. Though the only member left soon, I eventually delivered the products on schedule and the client is satisfied.

- Delivered a hybrid mobile app using Cordova framework for a fundraising activity of $1 million
- Built and optimized a light-weight frontend with HTML5, CSS3, **JavaScript**, and **jQuery**
- Deployed an API backend on **AWS EC2** instances to handle RESTful requests with **Java Spring MVC**
- Designed **MySQL** and **MongoDB** schemas to store app data and optimized them for complex requests

Mitsubishi Electrics, Researcher Intern, Tokyo   Jun 2016 – Aug 2016

Mitsubishi brought me in to complete user researches for a new healthcare product. I also voluntarily built a full prototype for the product, which the team later used in the presentation to the company board.

- Developed a full Android prototype for a healthcare app with Java and **Agile** best practices in one month
- Completed UX design and documentation for the mobile app
- Conducted market researches and virtualized the results using **D3.js**
- Delivered the final presentation to the department and gained project approval

Menusifu Inc., Assistant Product Manager, New York   Oct 2014 – Jun 2015

As an assistant product manager, I learned how to communicate effectively with our clients and developers to get useful insights, based on which I can come up with proper plans to improve our products' quality.

- Identified 500 bugs and user demands and raised overall satisfaction rate from 77% to 92% in two months
- Introduced **JIRA** to enhance internal collaboration on fixing bugs and capturing user feedbacks
- Increased monthly sales of my location by 53% to $110,000 based on product improvements

Southern Cross Care, Cloud Engineer Intern, Adelaide   Feb 2017 – May 2017

I helped this local elderly care non-profit optimize its cloud infrastructure on AWS and reduced the overall AWS costs by 30%. I also automated the database backup in daily basis and developed several widgets (User feedback, ACFI calculator) for its website.

PROJECT EXPERIENCE

Twitter Analytics Web Service, Carnegie Mellon University   May 2016

Prepare big data for analytical queries, which will be invoked to handle different types of user requests. 50 more teams are compared based on performance and budget control. Showcase and source code at here.

- Applied **Hadoop** MapReduce on **AWS** EMR to extract, transform, and load(ETL) 1TB of Twitter data
- Optimized **MySQL** and **HBase** with replication and partition to prevent SPOF and improve throughput
- Implemented a Java **RESTful** web service with cache to handle 3000 database requests/second at $0.95/hour
- Designed AWS load balancers and auto-scaling groups to maximize utilization, control the budget, and scale

Social Networking Timeline with Heterogeneous Backends, Carnegie Mellon University   Mar 2016

A dummy Facebook website deployed on AWS with news feed system. Showcase and source code at here.

- Built frontend showing users' information, followers, and the latest posts from the followees
- Implemented social network web service over multiple types of databases: MySQL for user authentication, HBase for social graph, and MongoDB for post image, text, comments
- Designed a recommendation system on the social network based on Collaborative Filtering algorithm

REFEREES

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