Christopher Ngan

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Summary

- Experienced developer with strong interests in data science, web technologies and solution architecture
- Insatiable desire to learn as shown in personal projects and academic success (top 5% of class)
- Entrepreneurial leader who is looking to tackle problems involving human and societal needs

Proficiency

- Programming - JavaScript, Python, Ruby, Java, C#, HTML, CSS
- Design - UX, System Integration, Product Design, Solution Architect
- Data - Analysis, Visualization, Pipelines, BigData(HQL, Pig), RDBMS(SQL), Excel, R
- Tools - Agile, TDD, Version Control (git, hg), any OS
- Platforms - Android, Web, .NET, Gems, Arduino, etc.
- Tech - Node, Flask, AWS, Backbone, Luigi, D3, Mongo, etc.

Education

- **System Design Engineering (2016)**
  University of Waterloo
  Consistently at top 5% of class

Awards

- Dean's Honours List (awarded **every** academic term)
- 1st Place (Communitech's Database Challenge 2014)
- Best Use of MongoDB (Entry at MHacks 2013)

Professional Experiences

Data Science Intern, Facebook
Menlo Park, CA (Sept 2014 - Present)

- Provided analytical insights, pipelines, dashboards and product recommendations
- Productionized a new metric for measuring the quality of ads on news feed
- Conducted analytical studies, including revenue forecasting, performance benchmarking and A/B testing, on a new ad unit for Ecommerce advertising

Big Data Engineer, Mortar Data
New York, NY (Jan - April 2014)

- Developed an ETL pipeline application with a focus on AWS and Hadoop
- Conceptualized, built and released a web solution for data visualization
- Continuous release on the award winning Mortar platform with Ruby and Python
- Created an API with Pig for a customizable recommendation engine application to simplify optimization techniques for users; built sample recommender systems

Product Developer, Nicoya Lifesciences
Waterloo, ON (May - Aug 2013)

- Primary software developer at company; headed projects in design and development
- Architected and developed a sleep sensor product; built hardware components, signal processing algorithms, Node server and user-facing web app for first prototype
- Developed major features of an Android application to use with a blood sensor product

Research Assistant, University of Waterloo
Waterloo, ON (Jan - Sept 2013)

- Researched and built an animation rendering library in Java for large touch displays

Mobile Developer Intern, Genesys Lab
Markham, ON (Sept - Dec 2012)

- TDD of a call center administration PaaS with technologies like Backbone and D3

Junior Software Programmer, Cole Engineering Ltd.
Markham, ON (Jan - April 2012)

- Lead developer of a prototype for a sewage surveying system; designed Android solution with Google Maps Integration, MySQL storage and PHP server

Relevant Projects

RobFordTheGame.com, Hacker at HackNY
- Co-created the viral sensation which gained over 150,000 plays and international buzz
- Responsible for technical architecture and coding of the JavaScript game

MediData, Hacker at MHacks
- Tool to provide reporting services for impoverished communities through SMS
- Worked on all layers of code at 36 hour hackathon; awarded Best Use of MongoDB

Communitech DATA.BASE Challenge, Entrepreneur
- Designed a product to promote healthy eating habits and cooking skills
- Was awarded first place in all of Ontario

Yummy Recs, Personal Project
- Designed and implemented an analytical experiment, including web crawlers and recommender systems built on Mortar with Pig, to validate recipe recommendations