Christopher Ngan

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Summary

- Programming - Javascript, Python, Ruby, Java, C#, C++, HTML, CSS, SQL, Pig
- Design - UX, System Integration, Product Design, Solution Architect
- Data - Pipelines, Analysis, ML Enthusiast, RDBMS, NoSQL, Hadoop
- Tools - Agile, TDD, Version Control (git, hg), any OS
- Platforms - Android, Web, .NET, Gems, Arduino, etc.
- Tech - Node, Flask, Gems, Backbone, Luigi, Bootstrap, D3, MongoDB, etc.
- Highly motivated to learn and succeed (Dean's Honour List)
- Passionate in applying skills to create meaningful applications

Education

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

Awards

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

Interests

- **Music**: plays guitar, piano, drums and spoons (utensil)
- **Food**: be a chef is plan B

Professional Experiences

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

- Developed an ETL pipeline application with a focus on AWS and Hadoop
- Created graph based recommendation engines in Apache Pig
- Conceptualized, initiated and released a web solution for data visualization
- Full stack development on the award winning platform with Ruby and Python

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, server code and user-facing applications for first prototype
- Developed major features of an Android application to use with a blood sensor product

Mobile Developer Intern, Genesys Lab
Markham, ON (Sept - Dec 2013)

- Continuous development of a SaaS web app for call routing adminstrators
- Delivered production level code using technologies such as Backbone and D3

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

- Lead developer of a prototpye for a sewage surveying system; designed Android solution with Google Maps Integration, MySQL storage and PHP server
- Created an internal project management tool on .NET

Relevant Projects

RobFordTheGame.com, Hacker
- Co-created the viral sensation in JavaScript at HackNY
- Reached over 140,000 game plays and gained international media coverage

MediData, Hacker
- Tool to provide reporting services for impoverished communities through SMS
- Made at Mhacks; awarded Best Use of MongoDB

OBZ Design, Technical Consultant Volunteer
- Researching and developing a reporting service for health workers in Nicuragua
- Wears many hats including product design, team management and coding

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, web crawlers and recommender systems built on Mortar with Pig, to validate recipe recommendations

Naive Bayesian Classifier, Personal Project
- Designed and coded a Naive Bayesian Classifier algorithm in Python

ManuScripter.aws.af.cm, Personal Project
- Created a Bible study web tool built on Node and Backbone