

Daniel Y. Choi

Year 3, Bachelor of Computer Science
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Education

- **University of British Columbia**

Bachelor of Computer Science, second degree program

- GPA 4.16 (in-major), expected graduation: Sept. 2017

Bachelor of Science with Distinction, Integrated Sciences

- GPA 3.98, concentration in biochemistry & human physiology

Vancouver, BC

May 2015 – Present

Sep. 2010 – May 2015

Core Technical Skills

Languages: TypeScript, Java, Scala*, C++*, JavaScript*, Racket, Matlab

Web: Angular 2, Node JS*, Express, Meteor JS, HTML, CSS, LESS

Tools & Frameworks: Git, Mercurial, SQL, MongoDB, \LaTeX ,

**currently learning*

Relevant Experience

- **Visier Inc.**

Software Developer Co-op

- Developing business intelligence and data visualization tools with TypeScript, Angular 2, and Scala
- Responsibilities include client-side implementations using a functional programming approach, domain model and architecture design, feature demos, and code reviews

- **University of British Columbia**

Computer Science Teaching Assistant

- Taught labs and held office hours for over 120 students in an introductory CS course
 - Topics focus on propositional and predicate logic proofs, discrete math, and models of computer systems
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Technical Projects

- **Sudoku-vision**

C++, OpenCV

- Created an augmented reality application that reads, solves and displays the answer to sudoku puzzles in real-time when the user holds them up to the webcam

- **Kiki's Delivery Service**

Java, JDBC, MySQL

- Responsible for design and end-to-end implementation of a relational database application from scratch that models a parcel delivery service

- **Collab-A-Comic!**

JavaScript, Jade, Node JS, MongoDB, Express

- Responsible for full-stack development of a collaborative comic book web application
- Elaborated user requirements, data models, architecture, and UI

- **Study Buddy**

Django, Python, JavaScript, CSS

- Made a web app that lets students organize study sessions with other students nearby
- Implemented frontend with JavaScript and CSS, integrated Google Maps, made UI design

Solo project

Aug 2016 – Present

Course project

Jan 2016 – May 2016

Course project

Jan 2016 – May 2016

nwHacks Hackathon

Feb 2016

- **Candoll**
Unity, C#
– Implemented player movement, UI, and basic enemy AI for a 2D top-down game
Global Game Jam
Jan 2016
- **Haikuthon**
JavaScript, MeteorJS, Facebook API
– Built a real-time collaborative haiku poem writing platform, with automatic syllable checking
– Implemented online users list using MongoDB and Facebook API
UBC BCS Hackathon
Nov 2015
- **Bicycle Trek**
JavaScript, MeteorJS, Google Maps API
– Created a web app for cyclists that draws their path on a map, and displays training metrics such as distance, speed, and elapsed time
– Designed UI, created InVision prototype, and implemented GPS route drawing
Code It Forward Hackathon
Jul 2015
- **Mind the Gap**
Java, Android Studio, Transport for London Unified API
– Built an Android transit app that uses the Transport for London API to display real-time arrivals and station data on a map of the city
– Implemented JSON parser, utilized user geolocation, implemented map overlays for stations and railways, wrote JUnit tests for every method
Course project
Jul – Aug 2015

Additional Experience

- **Centre for Molecular Medicine and Therapeutics**
Undergraduate researcher
Vancouver, BC
May 2012 – Mar 2014
- **Phi Delta Epsilon International Medical Fraternity**
Chapter president
Vancouver, BC
Mar 2013 – Mar 2014

Honors and Awards

- UBC Science Scholar 2015
- UBC Dean's Honor List 2010 – 2015
- UBC Summer Research Scholarship 2013
- Child and Family Research Institute Summer Research Scholarship 2013
- UBC President's Entrance Scholarship 2010

Publications

- Hou, N., Gutschmidt, A., **Choi, D.**, Pather, K., Shi, X., Watts, J., ... Taubert, S. (2014). Activation of the endoplasmic reticulum unfolded protein response by lipid disequilibrium without disturbed proteostasis in vivo. *Proceedings of the National Academy of Sciences*, 22(111), E2271-80. doi:10.1073/pnas
- Choi DY**, Hou NS, Taubert S. Characterization of fatty acid genes required for maintaining proteostasis in the endoplasmic reticulum and mitochondria. Poster session presented at: Child and Family Research Institute Summer Student Research Program 2013 Poster day.

Extracurricular activities

- Guitar instructor for charity fundraising 2014
- UBC orientations leader 2010 – 2013
- Soup kitchen volunteer 2011 – 2013
- HIV/AIDS ward volunteer 2011 – 2013
- Hospital volunteer team leader 2011 – 2012