

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: Java, C, C++, Matlab, L^AT_EX*, Racket

Web: JavaScript*, TextScript*, HTML, CSS*, NodeJS*, AngularJS*, Express*

Tools & Frameworks: Git, MeteorJS, MongoDB*, JDBC*, MySQL*

**currently learning*

Relevant Experience

- **University of British Columbia**

CS teaching assistant

- Teaching labs and 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

- **Collab-A-Comic!**

MongoDB, Express, AngularJS, NodeJS

- Developing an online collaborative comic book web application that lets users create comics by uploading panels to new or existing projects, and lets users search for and subscribe to comics and other users
- Learning to implement Agile software development, wrote 11 user stories in the product backlog

- **Kiki's Delivery Service**

Java, JDBC, MySQL

- Designing and implementing a relational database application from scratch that models a parcel delivery service
- Interface will be able to handle multiple user types, and will have at least 10 different queries
- Currently making Entity-Relationship diagrams

- **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

- **Bicycle Trek**

JavaScript, MeteorJS, Google Maps API

- Created a web app for cyclists that traces the user's path on a map, and displays training metrics such as distance, speed, and elapsed time
- Designed UI, created InVision prototype, and implemented GPS-tracked polyline drawing

Vancouver, BC

Sep. 2015 – Present

Course project

Jan. 2016 – Present

Course project

Jan. 2016 – Present

UBC BCS Hackathon

Nov. 2015

Code It Forward Hackathon

Jul. 2015

- **Mind the Gap**

Java, Android Studio, Transport for London Unified API

Course project

Jul. – Aug. 2015

- 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

Additional Experience

- **Centre for Molecular Medicine and Therapeutics**

Undergraduate researcher

Vancouver, BC

May 2012 – Mar. 2014

- Conducted diabetes and lipid metabolism research by experimenting on a nematode model

- **Phi Delta Epsilon International Medical Fraternity**

Chapter president

Vancouver, BC

Mar. 2013 – Mar. 2014

- Gave guidance to a team of 8 executives and chairmen, and over 30 members
- Raised over \$2000 for Children's Miracle Network, organized ethics debates, shifts at a soup kitchen, and mentoring events with physicians

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
- Science Undergraduate Society 2010 – 2011