

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, JavaScript*, C, C++, C#, Racket, Matlab

Web: NodeJS*, Express*, MeteorJS, HTML, CSS

Tools & Frameworks: Git, MongoDB, SQL*, L^AT_EX,

**currently learning*

Technical Experience

- **University of British Columbia**

CS teaching assistant

- Teaching labs and holding 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

- **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

- **Collab-A-Comic!**

MongoDB, Express, NodeJS, Jade

- 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
- Implemented local account registration and login, profile page with contributions list, comic page with image upload, dynamic routing

- **Candoll**

Unity, C#

- Developed a 2D top-down game during a 48-hour hackathon
- Scripted player movement, UI, and basic enemy AI, implemented cutscenes

- **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

nwHacks Hackathon

Feb 2016

Course project

Jan 2016 – Present

Global Game Jam

Jan 2016

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

- Provided 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