

# Daniel Y. Choi

Bachelor of Computer Science, 4<sup>th</sup> year  
1-(604)-866-3458 • cys920622@gmail.com  
github.com/cys920622 • linkedin.com/in/danielychoi

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## Education

- **University of British Columbia**  
*Bachelor of Computer Science, second degree program*  
– GPA 4.1 in-major, expected graduation: May 2018  
*Bachelor of Science with Distinction, Integrated Sciences*  
– GPA 4.0, 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, L<sup>A</sup>T<sub>E</sub>X,

*\*currently learning*

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## Relevant Experience

- **Visier Inc.**  
*Software Developer Co-op*  
– Used TypeScript, Angular 2 and Scala to deliver features for Visier’s business analytics and data visualization platform  
– Shipped over 20 features and more than 15 bug fixes, working on both the web client and server  
– Delivered feature demos, performed code reviews, and implemented features in functional programming style
- **University of British Columbia**  
*Computer Science Teaching Assistant*  
– Taught labs and held office hours for over 120 students in an introductory computer science course  
– Topics included propositional and predicate logic proofs, discrete math, and models of computer systems

**Vancouver, BC**

May 2016 – Present

**Vancouver, BC**

Sep 2015 – Apr 2016

## 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*  
– Designed and implemented a relational database application 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** **Global Game Jam**  
*Unity, C#* *Jan 2016*
  - Implemented player movement and controls, UI, and enemy AI for a 2D top-down game
- **Haikuthon** **UBC BCS Hackathon**  
*JavaScript, MeteorJS, Facebook API* *Nov 2015*
  - Built a real-time collaborative haiku poem writing platform, with automatic syllable checking
  - Implemented online users list using MongoDB and Facebook API
- **Bicycle Trek** **Code It Forward Hackathon**  
*JavaScript, MeteorJS, Google Maps API* *Jul 2015*
  - 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
- **Mind the Gap** **Course project**  
*Java, Android Studio, Transport for London Unified API* *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

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## Additional Experience

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

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## 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

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## 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.

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## 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