

Daniel Y. Choi

Bachelor of Computer Science, 4th year
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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^AT_EX,

**currently learning*

Relevant Experience

- **Visier Inc.** **Vancouver, BC**
Software Developer Co-op *May 2016 – Present*
 - 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** **Vancouver, BC**
Computer Science Teaching Assistant *Sep 2015 – Apr 2016*
 - 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
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Technical Projects

- **Sudoku-vision** **Solo project**
C++, OpenCV *Aug 2016*
 - 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** **Course project**
Java, JDBC, MySQL *Jan 2016 – May 2016*
 - Designed and implemented a relational database application that models a parcel delivery service
- **Collab-A-Comic!** **Course project**
JavaScript, Jade, Node JS, MongoDB, Express *Jan 2016 – May 2016*
 - Responsible for full-stack development of a collaborative comic book web application
 - Elaborated user requirements, data models, architecture, and UI
- **Study Buddy** **nwHacks Hackathon**
Django, Python, JavaScript, CSS *Feb 2016*
 - 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
- **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**
Jul 2015
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
 - **Mind the Gap** **Course project**
Jul – Aug 2015
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
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Education

- **University of British Columbia** **Vancouver, BC**
May 2015 – Present
Bachelor of Computer Science, second degree program
 - GPA 4.1 in-major, expected graduation: May 2018
Bachelor of Science with Distinction, Integrated Sciences Sep. 2010 – May 2015
 - GPA 4.0, concentration in biochemistry & human physiology
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Additional Experience

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