Daniel Y. Choi

Year 4, Bachelor of Computer Science
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Education

- **University of British Columbia** **Vancouver, BC**
  Bachelor of Computer Science, second degree program *May 2015 – Present*
    - GPA 4.16 (in-major), expected graduation: May 2018

  Bachelor of Science with Distinction, Integrated Sciences *Sep. 2010 – May 2015*
    - GPA 3.98, concentration in biochemistry & human physiology

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

Technical Projects

- **Sudoku-vision** **Solo project**
  C++, OpenCV *Aug 2016 – Present*
    - 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*
    - Responsible for design and end-to-end implementation of a relational database application from scratch 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, UI, and basic 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

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*

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