Daniel Choi

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

Core Technical Skills

Languages: Scala, JavaScript, TypeScript, Java, C++, Matlab
Web: React, Angular 2, Node, RxJS, HTML, CSS, LESS
Tools & Frameworks: Git, Mercurial, ScalaTest, IntelliJ IDEA, Jenkins CI, Sumologic, Xcode, SQL, MongoDB

Relevant Experience

- **Hootsuite** – Software developer co-op   *May 2017 – Aug 2017*
    - Built and released React components, including a navigation menu that receives >50k clicks per day
    - Contributed new features to Scala microservices that were critical to winning multi-million dollar deals
    - Added social media integrations using the LinkedIn and Facebook APIs
    - Monitored and diagnosed problems in legacy back-end services and the continuous integration pipeline

- **University of British Columbia** – Computer science teaching assistant   *Sep 2015 – Apr 2017*
    - Taught labs and office hours with topics ranging from software design and implementation to logic proofs and models of computer systems

- **Visier** – Software developer co-op   *May 2016 – Dec 2016*
    - Used TypeScript, Angular 2 and Scala to deliver new features for Visier's business analytics and data visualization platform
    - Shipped over 30 features and more than 25 bug fixes, working on both the front- and back-end
    - Delivered feature demos, performed code reviews, and gained HR industry knowledge

---

Technical Projects

- **Sudoku-vision**   **Extracurricular 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

- **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

Education

- **University of British Columbia** **Vancouver, BC**
  Bachelor of Computer Science, second degree program *May 2015 – Present*
    - 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

Additional Experience

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

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*