

# Yuchong Pan

http://ypan.me

Email : panyuchong@gmail.com

Mobile : +1 (425) 502-1565

## EDUCATION

---

- **University of British Columbia** Vancouver, BC  
*Bachelor of Science, Combined Honours Computer Science and Mathematics* September 2017 – May 2021
  - **Overall Grade Average:** 95%
  - **Relevant Coursework:** Combinatorial Optimization (graduate), Theory of Computing (graduate), Probability (graduate), Advanced Algorithm Design & Analysis (graduate), Compiler Construction, Programming Languages

## SELECTED EMPLOYMENT

---

- **Microsoft** Redmond, WA  
*Software Engineer Intern* June 2019 – August 2019
  - **.NET Core Uninstall Tool:** A guided tool that enables the controlled clean-up of a system such that only the desired versions of .NET Core SDKs and Runtimes remain.
  - **MSBuild Binary Log Query Language:** A domain-specific language extending XPath (XML Path Language) that provides multiple search operators for advanced queries on the target graph parsed from MSBuild binary logs.
- **Microsoft** Vancouver, BC  
*Software Engineer Intern* May 2018 – August 2018
  - **Earth Lens:** An open-source project for iPad that identifies, tracks, and analyzes objects in aerial imagery to assist in disaster relief and environmental conservation.
- **Sogou** Beijing, China  
*Software Engineer Intern* May 2017 – July 2017
  - **Speech-Recognition & OCR Proofreading Tools:** Web apps for internal proofreading and testing of AI-Cloud speech recognition and OCR services; based on Bootstrap, Vue.js, Flask and Docker.
  - **Receipt Recognition Service:** A service for receipt format and content recognition; based on Flask, scikit-image and Sogou AI-Cloud OCR Service; used for reimbursement management of Sogou's financial department.
- **InitialView** Beijing, China  
*Software Engineer Intern* September 2016 – May 2017
  - **Web and App Development:** Implemented server end, booking system, user portals, video players and blog; refactored homepage. Implemented a cross-platform app for iOS and Android based on Ionic and AngularJS.

## SELECTED PROJECTS

---

- **THE Hack:** The largest hackathon in China with 500 participants, 2,000 applicants from over 400 schools and 8 countries; served as Co-Founder and Director of Technology.
- **Gradual Octave:** Extended the Octave programming language with a gradual type system, incorporating benefits of both static and dynamic type systems.
- **Vox:** A tool that utilizes speech recognition and natural language processing to enable vertical search and visualization for audio and video documents; based on D3.js, Django and Microsoft Cognitive Services.
- **HackSearch:** A vertical, distributed search engine for specialized fields; based on Elasticsearch, D3.js and Golang.

## SELECTED AWARDS

---

- **Trek Excellence Scholarship, University of British Columbia (\$4,000)** August 2019 & September 2018
- **Stanley M Grant Scholarship in Mathematics, UBC (\$1,500)** August 2019
- **Science Scholar / Dean's Honour List, University of British Columbia** June 2019 & June 2018
- **Faculty of Science International Student Scholarship, UBC (\$10,000)** November 2018
- **11th Place, ACM International Collegiate Programming Contest Pacific NW Region** November 2017
- **Outstanding International Student Award, University of British Columbia (\$6,000)** February 2017
- **Silver Medal, China Team Selection Competition for International Olympiad in Informatics** May 2015
- **Bronze Medal, Asia Pacific Informatics Olympiad** May 2015

## PROGRAMMING SKILLS

---

- **Languages:** C++, Python, Java, C#, Racket, Standard ML, Ruby, MATLAB, Go, JavaScript, MySQL, L<sup>A</sup>T<sub>E</sub>X
- **Technologies:** Django, Flask, Tornado, Microservices, Bootstrap, Vue.js, AngularJS, D3.js, Node.js, Marko.js, Ionic, Nginx, Redis, Docker, Amazon AWS, Microsoft Azure, .NET, Xamarin, Microsoft Build Engine (MSBuild)