

# Yuchong Pan

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## EDUCATION

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

## EMPLOYMENT

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- **Microsoft** Redmond, WA  
*Software Engineering Intern* June 2019 – August 2019 (Estimated)
  - **.NET Core Installation Cleanup Tool:** A guided tool that enables the controlled clean-up of a system such that only the desired versions of the .NET Core SDKs and Runtimes remain.
- **Microsoft** Vancouver, BC  
*Software Engineering 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 Engineering 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 Engineering Intern* September 2016 – May 2017
  - **Web Development:** Implemented server-end API; implemented front-end of booking system, portals and interview video player; refactored homepage; implemented blog system.
  - **App Development:** Implemented InitialView's cross-platform app for iOS and Android platforms.

## PROJECTS

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- **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.
- **Aquatopia:** A monitoring, alerting and visualization system for environmental data; based on Django and Arduino.
- **HackSearch:** A vertical, distributed search engine for specialized fields; based on Elasticsearch, D3.js and Golang.

## AWARDS

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- **Science Scholar / Dean's Honour List, University of British Columbia** June 2018 & 2019
- **Faculty of Science International Student Scholarship, University of British Columbia** November 2018
- **Trek Excellence Scholarship, University of British Columbia** September 2018
- **27th Place, North American Invitational Programming Contest Open Division** March 2018
- **11th Place, ACM International Collegiate Programming Contest Pacific NW Region** November 2017
- **Silver Medal, China Team Selection Competition for International Olympiad in Informatics** May 2015
- **Bronze Medal, Asia Pacific Informatics Olympiad** May 2015
- **First Prize, National Olympiad in Informatics in Provinces** November 2013 & 2014

## PROGRAMMING SKILLS

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- **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