# Yuchong Pan

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## 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), Tools for Modern Algorithm Analysis (graduate), Theory of Computing (graduate), Probability (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, LaTeX
- **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)