

Yuchong Pan

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EDUCATION

- **University of British Columbia** Vancouver, BC
B.Sc., Combined Honours Computer Science and Mathematics, Minor in Philosophy September 2017 – May 2021
 - **Overall Grade Average:** 94.3%
 - **Coursework:** Combinatorial Optimization*, Submodular Optimization*, Tools for Modern Algorithm Analysis*, Probability*, Stochastic Processes*, Theory of Computing*, Compiler, Programming Languages (* graduate)

SELECTED EMPLOYMENT

- **Microsoft** Vancouver, BC
Software Engineer Intern, .NET May 2020 – August 2020
 - **.NET Runtime IL Interpreter:** Resurrected the IL (intermediate language) interpreter inside .NET Runtime. Conducted performance analyses for the various configurations of the IL interpreter. [GitHub]
- **Microsoft** Redmond, WA
Software Engineer Intern, .NET 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. [GitHub] [Blog] [Documentation]
 - **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, Garage 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. The project uses Xamarin and CoreML. [GitHub] [Blog]
- **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.

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. [Website]
- **Gradual Octave:** Extended the Octave programming language with a gradual type system, incorporating benefits of both static and dynamic type systems. [Report] [GitHub]
- **MiniJava:** MiniJava is a subset of the Java language. Implemented a MiniJava-to-x64 compiler, including phases of frontend, intermediate representation, code generation, and optimization.

SELECTED AWARDS

- **Science Scholar / Dean's Honour List, University of British Columbia** 2018, 2019, 2020
- **Trek Excellence Scholarship, University of British Columbia** 2018, 2019
- **Faculty of Science International Student Scholarship, University of British Columbia** 2018, 2019
- **Stanley M Grant Scholarship in Mathematics, University of British Columbia** 2019
- **11th Place, ACM International Collegiate Programming Contest Pacific NW Region** 2017
- **Outstanding International Student Award, University of British Columbia** 2017
- **Silver Medal, China Team Selection Competition for International Olympiad in Informatics** 2015
- **Bronze Medal, Asia Pacific Informatics Olympiad** 2015
- **First Prize, National Olympiad in Informatics in Provinces** 2013, 2014

PROGRAMMING SKILLS

- **Languages:** C++, Python, Java, C#, Racket, Standard ML, Ruby, MATLAB, Go, JavaScript, MySQL, L^AT_EX
- **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)