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: 94.2%
- Coursework: Combinatorial Optimization*, Submodular Optimization*, Tools for Modern Algorithm Analysis*, Probability*, Stochastic Processes*, Number Theory*, Theory of Computing*, Compiler, Programming Languages (* graduate courses)

SELECTED EMPLOYMENT

Microsoft Vancouver, BC

Software Engineer Intern

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] [Presentation]

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. [GitHub] [Blog] [Documentation]
- o 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. The project uses Xamarin and CoreML. [GitHub] [Blog]

Beijing, China Sogou

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, Director of Technology, and Co-Director of Corporate Relations. [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 Compiler: 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

• Trek Excellence Scholarship, University of British Columbia	2018, 2019, 2020
• Science Scholar / Dean's Honour List, University of British Columbia	2018, 2019, 2020
• 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 Informat	ics 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, IATEX
- 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)