

# Jiho Choi

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<https://github.com/jihochoi>

## OBJECTIVE

To obtain an **CO-OP / Full-time** position for Spring / Summer 2018 in software engineering / development related fields.

## EDUCATION

<b>Purdue University - West Lafayette, IN</b>	Dec. 2017 (Expected)
<b>B.S. in Computer Science</b>	Major GPA: 3.28 / 4.00 Cumulative GPA: 3.17 / 4.00
<ul style="list-style-type: none"><li>• <b>Systems Programming: Compilers, Operating Systems, Computer Networks, Database Systems</b>, Cloud Computing Security</li><li>• <b>Computational Science &amp; Engineering:</b> Numerical Methods, Differential Equation, Analysis of Algorithms</li><li>• <b>Software Engineering: Software Engineering, Software Testing, Computer Security</b>, Competitive Programming</li></ul>	

## RESEARCH / RELATIVE EXPERIENCE

<b>Software Engineering Intern</b>	Fasoo Inc, Seoul, South Korea	May. 2017 - Aug. 2017
<ul style="list-style-type: none"><li>• Developed 11 Swift AST Node checkers for Sparrow Static Analyzer in <b>Java / Maven</b>.</li><li>• Participated in scaffolding 2250 Windows API Functions for Sparrow Static Analyzer for C++ Libraries.</li><li>• Developed MSDN Web Crawler for scaffolding. (Supervisor: <a href="#">Principal Research Engineer Jung</a>)</li></ul>		
<b>Undergraduate Research Assistant</b>	Purdue Univ. West Lafayette, IN	Jun. 2016 - Dec. 2016
<ul style="list-style-type: none"><li>• Implemented an Apache Storm Benchmark using nodes of AWS EC2 to evaluate the performance of the streaming data in cloud computing environment in <b>Java / Clojure</b>.</li><li>• Expanding Yahoo Streaming Benchmark to test encrypted streaming data operations' performance using Apache Storm and Kafka framework. (Supervisor: <a href="#">Prof. Eugster</a>)</li></ul>		
<b>Undergraduate Teaching Assistant</b>	Purdue Univ. West Lafayette, IN	Aug. 2016 - Current
<ul style="list-style-type: none"><li>• Teaching and helping the undergraduate students in Computer Architecture (CS250) lab sessions.</li><li>• Focused materials are logic gates, <b>circuit design</b>, and <b>ARM assembly</b> language. (Supervisor: <a href="#">Prof. Adams</a>)</li></ul>		
<b>Full Stack Web Developer</b>	Purdue ISEEEK, West Lafayette, IN	Oct. 2016 - Jan. 2017
<ul style="list-style-type: none"><li>• Developed the static webpage for Purdue University's <i>Institute for Social Empowerment through Entrepreneurship and Knowledge</i> using <b>JavaScript, HTML5/CSS3</b>, and Bootstrap framework.</li></ul>		

## SOFTWARE DEVELOPMENT PROJECTS ([GITHUB](#))

<b>Remote File Sharing System</b>	Jan. 2017 - May. 2017
<ul style="list-style-type: none"><li>• Implemented uTorrent like P2P file exchanging program using <b>socket API</b> and <b>multi-threading</b> in <b>C</b>.</li></ul>	
<b>Coconut Water</b> ( <a href="http://coconutwatr.herokuapp.com">http://coconutwatr.herokuapp.com</a> )	Jan. 2017 - May. 2017
<ul style="list-style-type: none"><li>• MEAN Stack (<b>MongoDB, Express, Angular, Node.js</b>) web application to connect students in same courses with posts and real-time chatroom. <b>Google Auth, socket.io</b> (Software Testing, Supervisor: <a href="#">Prof. Jagannathan</a>)</li></ul>	
<b>XINU Operating System Modification</b>	Jan. 2016 - Current
<ul style="list-style-type: none"><li>• Implementing additional features like round-robin semaphore and optimizing process scheduler in <b>XINU OS</b>. (CS354 Operating Systems, Supervisor: Prof. Payer)</li></ul>	
<b>Sentinel Data Vault</b>	Aug. 2015 - Dec. 2015
<ul style="list-style-type: none"><li>• Developing GUI Database managing program with Java, SQLite (DBMS), and Java Crypto API.</li><li>• (* This Java application helps users to store and transfer important information efficiently and securely.)</li></ul>	
<b>Perfect Note IBM Bluemix</b>	Oct. 2015 - Dec. 2015
<ul style="list-style-type: none"><li>• Developing interactive web application with AngularJS, Bootstrap using <b>IBM Bluemix</b> Server and Database.</li></ul>	
<b>My Own Shell (Lexer / Parser)</b>	Jan. 2015 - May. 2015
<ul style="list-style-type: none"><li>• Implemented Bash like shell using Lax/Yacc and C++ which has wildcard processing, subshell, and extra features.</li></ul>	
<b>HTTP Server</b>	Sep. 2015 - Nov. 2015
<ul style="list-style-type: none"><li>• Developing Linux TCP / HTTP server program with C++ Socket API.</li></ul>	
<b>iOS Purdue App</b> (App Store)	Jul. 2014 - Sep. 2014
<ul style="list-style-type: none"><li>• Participating in developing Purdue iOS App with Purdue iOS Development Club.</li></ul>	

## SKILLS

- Programming Language : **C, Java**, Bash, Scala, HTML5/CSS3, **JavaScript**, C++, **SQL**, Lex/Yacc, Clojure, and Swift
- IDE / Software : **IntelliJ**, Visual Studio, **Terminal**, Vim, Excel, MATLAB, XCode, Publisher
- Tool / Framework : **Git**, Maven, LaTeX, Apache Strom, Hadoop, **MEAN Stack (Node.js)**, and Bootstrap

## LEADERSHIP / ACTIVITIES

- Purdue Korean Undergraduate Student Association – **President** Jul. 2015 - May 2016
  - Lead Purdue KUSA officers and members, and hosted / directed 4 large scale events.
  - Obtained 3 grants with an amount of \$10,300 from Purdue SOGA, Purdue SAO.