

# Jiho Choi

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## OBJECTIVE

To obtain an **internship / 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> Cumulative GPA: 3.17 / 4.00	
<ul style="list-style-type: none"><li>• <b>Systems Programming:</b> Compilers, Operating Systems, Computer Networks, Database Systems, Cloud Computing Security</li><li>• <b>Computational Science &amp; Engineering:</b> Numerical Methods, Differential Equation, Analysis of Algorithms</li><li>• <b>Software Engineering:</b> Software Engineering, Software Testing, Systems Programming, Computer Security</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>• Participated in developing 11 Swift AST Node checkers for Sparrow Static Analyzer.</li><li>• Participated in scaffolding 2250 Windows API Functions for Sparrow Static Analyzer for C++ Libraries.</li><li>• Developed MSDN Web Crawler for convenient when scaffolding. (Supervisor: <a href="#">Principal Research Engineer Jung</a>)</li></ul>		
<b>Apache Storm Benchmark Implementation</b>		Jun. 2016 - Dec. 2016
<ul style="list-style-type: none"><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><li>• Using nodes of AWS EC2 to evaluate the performance of the streaming data in cloud computing environment.</li></ul>		
<b>Undergraduate Teaching Assistant</b>	Purdue Univ. West Lafayette, IN	Aug. 2016 - May. 2017
<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, circuit design, and ARM assembly language. (Supervisor: <a href="#">Prof. Adams</a>)</li></ul>		
<b>Full Stack Web Developer</b>	Purdue ISEEK, West Lafayette, IN	Oct. 2016 - Jan. 2017
<ul style="list-style-type: none"><li>• Developed the static webpage for Purdue University's Institute for Social Empowerment through Entrepreneurship and Knowledge (<a href="http://www.krannert.purdue.edu/centers/iseek">www.krannert.purdue.edu/centers/iseek</a>) using HTML5/CSS3, JS, and Bootstrap framework.</li></ul>		

## SOFTWARE DEVELOPMENT PROJECTS

<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 socket API and multi-threading in C.</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 (MongoDB, Express, Angular, Node.js) web application to connect students in same courses.</li><li>• Google Auth, Real-time chatroom, Post are key features. (CS408 Software Testing, Supervisor: Prof. Jagannathan)</li></ul>	
<b>XINU Operating System Modification</b>	Jan. 2016 - Dec. 2016
<ul style="list-style-type: none"><li>• Implementing additional features like round-robin semaphore and optimizing process scheduler in XINU OS. (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, and Java Crypto API.</li><li>• (* This Java application helps users to store and transfer massive 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 IBM Bluemix Server and Database.</li></ul>	
<b>My Own Shell</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 using parser and .</li></ul>	
<b>HTTP Server (Apache 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>iO Purdue App (Apple App Store)</b>	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.
- Software : IntelliJ, Visual Studio, Terminal, Vim, Excel, MATLAB, XCode, Publisher
- Tool / Framework : Git, Maven, 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.