

# Jiho Choi

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## OBJECTIVE

To obtain an **internship / CO-OP** position for Summer / Fall 2017 in software engineering, development related fields.

## EDUCATION

**Purdue University - West Lafayette, IN**

Dec. 2017 (Expected)

**B.S. in Computer Science**

Cumulative GPA: 3.17 / 4.00

(\* = courses to be taken in Fall 2017)

- **Systems Programming:** \*Compilers, Operating Systems, Computer Networks, Database Systems, Cloud Computing Security
- **Computational Science & Engineering:** Discrete Math, Numerical Methods, Analysis of Algorithms, Differential Equation
- **Software Engineering:** Software Engineering, Software Testing, Object-oriented Programming, Systems Programming

## RESEARCH / RELATIVE EXPERIENCE

<b>Software Engineering Intern</b>	Fasoo Inc, Seoul, South Korea	May. 2017 - June 2017
• (Expected) Expected to participate in developing Fasoo's software products		
<b>Apache Storm Benchmark Implementation</b>		Jun. 2016 - Dec. 2016
• Expanding Yahoo Streaming Benchmark to test encrypted streaming data operations' performance using Apache Strom and Kafka framework. (Supervisor: Prof. Eugster)		
• Using nodes of AWS EC2 to evaluate the performance of the streaming data in cloud computing environment.		
<b>Undergraduate Teaching Assistant</b>	Purdue Univ. West Lafayette, IN	Aug. 2016 - May. 2017
• Teaching and helping the undergraduate students in Computer Architecture (CS250) lab sessions.		
• Focused materials are logic gates, circuit design, and ARM assembly language. (Supervisor: Prof. Adams)		
<b>Full Stack Web Developer</b>	Purdue ISEEK, West Lafayette, IN	Oct. 2016 - Jan. 2017
• 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.		

## SOFTWARE DEVELOPMENT PROJECTS

<b>Remote File Sharing System</b>	Jan. 2017 - May. 2017
• Implemented uTorrent like P2P file exchanging program using socket API and multi-threading in C.	
<b>Coconut Water</b> ( <a href="http://coconutwater.herokuapp.com">http://coconutwater.herokuapp.com</a> )	Jan. 2017 - May. 2017
• MEAN Stack (MongoDB, Express, Angular, Node.js) web application to connect students in same courses.	
• Google Auth, Real-time chatroom, Post are key features. (CS408 Software Testing, Supervisor: Prof. Jagannathan)	
<b>XINU Operating System Modification</b>	Jan. 2016 - Dec. 2016
• Implementing additional features like round-robin semaphore and optimizing process scheduler in XINU OS. (CS354 Operating Systems, Supervisor: Prof. Payer)	
<b>Sentinel Data Vault</b>	Aug. 2015 - Dec. 2015
• Developing GUI Database managing program with Java, SQLite, and Java Crypto API.	
• (* This Java application helps users to store and transfer massive important information efficiently and securely.)	
• (CS307 Software Engineering, Supervisor: Prof. Dunsmore)	
<b>Perfect Note IBM Bluemix</b>	Oct. 2015 - Dec. 2015
• Developing interactive web application with AngularJS, Bootstrap using IBM Bluemix Server and Database.	
<b>My Own Shell</b>	Jan. 2015 - May. 2015
• Implemented Bash like shell using Lax/Yacc and C++ which has wildcard processing, subshell, and extra features.	
<b>HTTP Server (Apache HTTP Server)</b>	Sep. 2015 - Nov. 2015
• Developing Linux TCP / HTTP server program with C++ Socket API.	
<b>iOS Purdue App (Apple App Store)</b>	Jul. 2014 - Sep. 2014
• Participating in developing Purdue iOS App with Purdue iOS Development Club.	

## SKILLS

- Programming Language : C, Java, Bash, HTML5/CSS3, JavaScript, C++, Clojure, SQL, Lex/Yacc, and Swift.
- Software : IntelliJ, Visual Studio, Terminal, Vim, Excel, MATLAB, XCode, Publisher
- Tool / Framework : Apache Strom, Hadoop, Git, 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.
- Purdue Korean Undergraduate Student Association - **Officer** Sep. 2013 - Jun. 2015
  - Participated as a team leader and a team member for various small to large scale events including those named "D-Korea", "Starry Night", "Days of Korea", "Show me Your Talent," and "The Forgotten War".