

# 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

**Software Engineering Intern**

Fasoo Inc, Seoul, South Korea

May. 2017 -

- Expected to participate in developing Fasoo's software products.

**Apache Storm Benchmark Implementation**

Jun. 2016 - Dec. 2016

- Expanding Yahoo Streaming Benchmark to test encrypted streaming data operations' performance using Apache Storm and Kafka framework. (Supervisor: Prof. Eugster)
- Using nodes of AWS EC2 to evaluate the performance of the streaming data in cloud computing environment.

**Undergraduate Teaching Assistant**

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)

**Full Stack Web Developer**

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 ([www.krannert.purdue.edu/centers/iseek](http://www.krannert.purdue.edu/centers/iseek)) using HTML5/CSS3, JS, and Bootstrap framework.

## SOFTWARE DEVELOPMENT PROJECTS

**Remote File Sharing System**

Jan. 2017 - May. 2017

- Implemented uTorrent like P2P file exchanging program using socket API and multi-threading in C.

**Coconut Water** (<http://coconutwater.herokuapp.com>)

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)

**XINU Operating System Modification**

Jan. 2016 - Dec. 2016

- Implementing additional features like round-robin semaphore and optimizing process scheduler in XINU OS. (CS354 Operating Systems, Supervisor: Prof. Payer)

**Sentinel Data Vault**

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)

**Perfect Note IBM Bluemix**

Oct. 2015 - Dec. 2015

- Developing interactive web application with AngularJS, Bootstrap using IBM Bluemix Server and Database.

**My Own Shell**

Jan. 2015 - May. 2015

- Implemented Bash like shell using Lax/Yacc and C++ which has wildcard processing, subshell, and extra features.

**HTTP Server (Apache HTTP Server)**

Sep. 2015 - Nov. 2015

- Developing Linux TCP / HTTP server program with C++ Socket API.

**iOS Purdue App (Apple App Store)**

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 Storm, 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".