Jiho Choi

choi296@purdue.edu || jihochoi1993@gmail.com

1.765.430.5585
github.com/jihochoi
web.ics.purdue.edu/~choi296

OBJECTIVE

To obtain an **internship** / **CO-OP** position for Fall 2017 / Spring 2018 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 - Aug. 2017
- Participated in developing 11 Swift AST Node checkers for Sparrow Static Analyzer.
- Participated in scaffolding 2250 Windows API Functions for Sparrow Static Analyzer for C++ Libraries.
- Developed MSDN Web Crawler for convenient when scaffolding. (Supervisor: Principal Research Engineer Jung)

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) 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://coconutwatr.herokuapp.com)** [WebApp / Github]   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.)

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 using parser and .

HTTP Server (Apache HTTP Server)   Sep. 2015 - Nov. 2015
- Developing Linux TCP / HTTP server program with C++ Socket API.

iO 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   : Git, Maven, Apache Strom, Hadoop, MEAN Stack (Node.js), and Bootstrap

LEADERSHIP / ACTIVITIES

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