

Jiho Choi

choi296@purdue.edu

1.765.430.5585

www.jihochoi.info

<https://github.com/jihochoi>

OBJECTIVE

To be admitted to computer science graduate program with research opportunities in the areas of distributed systems or software verification.

EDUCATION

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

RESEARCH / RELATIVE EXPERIENCE

Software Engineering Intern	Fasoo Inc, Seoul, South Korea	May. 2017 - Aug. 2017
<ul style="list-style-type: none">• Developed 11 Swift AST Node checkers for Sparrow Static Analyzer in Java / Maven.• Participated in scaffolding 2250 Windows API Functions for Sparrow Static Analyzer for C++ Libraries.• Developed MSDN Web Crawler for scaffolding. (Supervisor: Principal Research Engineer Youngbum Jung)		
Individual Research	Purdue Univ. West Lafayette, IN	Jun. 2016 - Dec. 2016
<ul style="list-style-type: none">• Implemented an Apache Storm Benchmark using nodes of AWS EC2 to evaluate the performance of the streaming data in cloud computing environment in Java / Clojure.• Expanding Yahoo Streaming Benchmark to test encrypted streaming data operations' performance using Apache Storm and Kafka framework. (Supervisor: Prof. Patrick Eugster)		
Undergraduate Teaching Assistant	Purdue Univ. West Lafayette, IN	Aug. 2016 - Current
<ul style="list-style-type: none">• 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. George Adams)		
Full Stack Web Developer	Purdue KUSA, West Lafayette, IN	Oct. 2016 - Jan. 2017
<ul style="list-style-type: none">• Developed the static webpage for Purdue University's <i>Korean Undergraduate Student Association</i> using JavaScript, HTML5/CSS3, and Bootstrap framework.		

SOFTWARE DEVELOPMENT PROJECTS ([GITHUB](#))

Remote File Sharing System	Jan. 2017 - May. 2017
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• MEAN Stack (MongoDB, Express, Angular, Node.js) web application to connect students in same courses with posts and real-time chatroom. Google Auth, socket.io (Software Testing, Supervisor: Prof. Suresh Jagannathan)	
XINU Operating System Modification	Jan. 2016 - Current
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Developing GUI Database managing program with Java, SQLite (DBMS), and Java Crypto API.• (* This Java application helps users to store and transfer important information efficiently and securely.)	
Perfect Note IBM Bluemix	Oct. 2015 - Dec. 2015
<ul style="list-style-type: none">• Developing interactive web application with AngularJS, Bootstrap using IBM Bluemix Server and Database.	
My Own Shell (Lexer / Parser)	Jan. 2015 - May. 2015
<ul style="list-style-type: none">• Implemented Bash like shell using Lax/Yacc and C++ which has wildcard processing, subshell, and extra features.	
HTTP Server	Sep. 2015 - Nov. 2015
<ul style="list-style-type: none">• Developing Linux TCP / HTTP server program with C++ Socket API.	
iOS Purdue App (App Store)	Jul. 2014 - Sep. 2014
<ul style="list-style-type: none">• Participating in developing Purdue iOS App with Purdue iOS Development Club.	

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.