

Jiho Choi

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OBJECTIVE

To obtain a **research assistant** position for **Spring / Summer 2017** in **Distributed Systems** or **Software Engineering** related fields.

EDUCATION

Purdue University - West Lafayette, IN

Dec. 2017 (Expected)

B.S. Computer Science

Cumulative GPA: 3.12 / 4.00

Areas of Concentration:

(* = courses to be taken in Fall 2017)

- **Systems Programming:** *Compilers, Operating Systems, Computer Networks, *Computer Security, Cloud Computing Security
- **Computational Science & Engineering:** Numerical Methods, SW Engineering, SW Testing, Analysis of Algorithms, DB Systems

Minor in Art and Design Studio: *Computer Graphics, Design, Drawing, History of Art, Illustrator, and Photoshop

RESEARCH / RELATIVE EXPERIENCE / PROJECTS

Research

- **Apache Storm Benchmark Implementation** Jun. 2016 - Present
 - Expanding Yahoo Streaming Benchmark to test encrypted streaming data operations' performance using Apache Storm and Kafka framework. (Supervisor: Prof. Eugster, Prof. Grama)
 - Using nodes of AWS EC2 to evaluate the performance of the streaming data in cloud computing environment.

Relative Experiences

- **Undergraduate Teaching Assistant**, Purdue Univ. West Lafayette, IN Aug. 2016 - Present
 - Teaching and helping the undergraduate students in 3 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 webpages 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.
- **Web Master**, Purdue KUSA, West Lafayette, IN Aug. 2013 - Dec. 2015
 - Developed and maintained static webpages for school organization (Purdue Korean Undergraduate Student Association: www.purdue.edu/kusa).

Software Development Projects

- **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.
- **Bash Shell Modification** Jan. 2015 - May 2015
 - Extending Linux Bash Shell, developed with Lex/Yacc and C++.
- **HTTP Server (Apache HTTP Server)** Sep. 2015 - Nov. 2015
 - Developing Linux TCP / HTTP server program with C++ Socket API.
- **Purdue App** Jul. 2014 - Sep. 2014
 - Participating in developing Purdue iOS App with Purdue iOS Development Club.

SKILLS

- Programming Language : C/C++, Java, Bash, SQL, HTML5/CSS3, JavaScript, Clojure, Lex/Yacc, and Swift.
- Software : IntelliJ, Visual Studio, Terminal, Excel, MATLAB, XCode, Publisher, Photoshop, and Illustrator
- Tool / Framework : Apache Storm, Hadoop, Git, MEAN Stack and Bootstrap

LEADERSHIP / ACTIVITIES

- **Purdue Korean Undergraduate Student Association – President** Jul. 2015 - May 2016
 - Lead Purdue KUSA officers and members.
 - Hosted and directed 4 large scale events (over 400 students attended for each event).
 - 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”.