

## Jin Won (Daniel) Choi

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Personal Website: <https://jinnovation.azurewebsites.net>

### EDUCATION

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Austin, Texas

University of Texas at Austin

Dec 2018

**Major:** Physics, BSA

**Certificate (Minor):** Computer Science

**Programming Coursework:** Algorithm & Data Structures, Object-Oriented Programming, Databases, iOS Mobile Development

**Programming Experience:** JavaScript, jQuery, NodeJS, PostgreSQL, HTML5, CSS3, Python, Git

**Passion:** Learning new technology and implementing gained knowledge to professional life as well as personal inventions

### EMPLOYMENT

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Software Engineer

Zinnotech (startup)

Jan 2019 - Present

- Increased system GUI performance by 82% by implementing adaptive rendering and adaptive SVG transform.
- Increased overall system performance by 7% by refactoring system data structure by implementing maps instead of arrays.
- Automated system testing by writing system tests in Perl script to carry out CRUD and ETL manipulations on the database to emulate real instances for the UI operations.
- Built a stateful vault storage architecture on the node server which increased client-side performance by 53% by decreasing socket traffic and optimizing data processing.
- **Leveraged Knowledge** in Full Stack Web development, JavaScript, NodeJS, D3, jQuery, PostgreSQL, and Git.

Software Engineer, Intern

Zinnotech (startup)

July – Dec 2018

- Developed a real-time internal Operations Management System (OMS) with an interactive SVG based GUI that controls and displays the production operations of Samsung semiconductor factories for automation.
- Developed the GUI based CAD tool that is used to create and edit factory layouts.
- Integral part of designing the data structure and flow of major components in the application using agile s/w development tactics.
- **Leveraged Knowledge** in Front End Web development, JavaScript, D3, jQuery, Git, and debugged using Chrome Developer Tools.

### IoT PROJECT

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Home Automation: Home entertainment controller with IFTTT and Google assistant

June 2018 - Present

- Programmed an Arduino ESP microcontroller using C++ that controls all self-created smart home devices with MQTT protocols that subscribes to a MQTT broker service which receives commands sent from Google home assistant.
- The system controls many mechanical components through the use of a stepper motor controllers, sensors, and relays integrated through I2C interface.

### EXTRACURRICULAR ACTIVITIES

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Squad Leader, 1<sup>st</sup> Squadron

Republic of Korea Army

Fall 2013 - Summer 2015

- Served as the active sergeant squadron leader of a 10 man combat engineer squadron.
- 21<sup>st</sup> Division Engineer Battalion 1<sup>st</sup> Company 1<sup>st</sup> Platoon 1<sup>st</sup> Squad Demolitions and Explosives Specialist.
- Honorably discharged as a Sergeant Specialist.

Founding Father/Risk Management Chair

Phi Kappa Tau

Spring 2012 - Present

- Founding father of the 40+ men Beta Alpha Chapter of Phi Kappa Tau (PKT) at the University of Texas at Austin and PKT is a national level fraternity of extraordinary men.
- Arranged and hosted the annual six string philanthropy that raises funds to support the handicap summer camp for children with disabilities and illnesses.

### ADDITIONAL INFORMATION

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- **Willing to relocate**
- **Need work sponsorship (H1-B Visa)**