

# JEREMY CHANG

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## OBJECTIVE

Seeking a summer 2019 internship to expand knowledge in information security, algorithms, or full stack development.

## EDUCATION

### Purdue University, West Lafayette, IN

August 2017 – May 2021

GPA: 3.74/4.00

- B.S. Computer Science Concentration in Security, Minor in Mathematics

## PROFESSIONAL EXPERIENCE

### US Bank, St. Louis, MO, Developer Intern

June 2018 – August 2018

- Developed an application to manage database tables with Microsoft's web application framework (ASP.NET MVC).
- Redesigning database tables to provide an audit trail for groups of accounts that owe money.
- Streamlined and automated proprietary reporting from 2 months turnaround time to 2 minutes.
- Updated stored procedures and functions that generate reports affected by table design changes.

### Kumon Math and Reading Center of Chesterfield, St. Louis MO, Tutor

July 2016 – August 2018

- Challenged students in mathematics to improve their problem-solving skills.
- Illustrated math concepts ranging from counting to introductory calculus.
- Instructed grammar rules and ways of analyzing complex texts.

## PROJECTS AND TEAM EXPERIENCE

### Purdue IEEE Software Saturdays, Mentor

August 2018 – Present

- Facilitated bi-weekly sessions teaching full stack development.
- Prepared sample Node.js, SQLite3, and JavaScript code for teaching sessions.
- Reviewed presentation slides for attendees.

### Purdue IEEE Remotely Operated underwater Vehicle, Software Member

January 2018 – Present

- Implemented a pressure sensor that returns relative depth in a pool using python.
- Created python tests for user to validate sensor readings.

### Purdue IEEE Aerial Robotics, Sub-Team Lead

August 2017 – May 2018

- Created python scripts to send and receive data on detected objects from plane to base station.
- Used python to generate datasets of shapes and letters to train our neural network.
- Researched the object proposal algorithm BING++ and taught members how to install and improve it.

### Lexus Eco Challenge, Researcher and Head of Outreach

Fall 2016 – Spring 2017

- Researched, tested, and raised awareness of poorly disposed chemicals in lakes near houses and schools.
- Designed and built a solar powered water heater to boil water.
- Presented solutions to elementary schools that were near lakes to inspire students to help the environment.

## SKILLS

### Programming Languages

- Java, C, SQL, JavaScript, C#, MATLAB, Python

### Frameworks and Skills

- ASP.NET MVC, SQL Server, NodeJS, SQLite3, jQuery, LINQ, UNIX, Git

## RELEVANT COURSEWORK

Programming in C, Foundations of Computer Science, Introduction to Statistics, Competitive Programming I, Calculus III, Elementary Linear Algebra, Programming Application for Engineers, Tools (UNIX), Problem Solving and OOP

## HONORS AND AWARDS

AITP SigAPP Challenge, Second Place

Spring 2018

Dean's List and Semester Honors, College of Engineering

Fall 2017 – Spring 2018

BoilerMake Bloomberg Puzzle Challenges, Sub-Challenge Winner

Fall 2017

Lexus Eco Challenge 1&2, Finalist

Fall 2016 – Spring 2017