

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