

# JEREMY CHANG

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## EDUCATION

### Purdue University, West Lafayette, IN

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

August 2017 – May 2021

GPA: 3.63/4.00

## PROFESSIONAL EXPERIENCE

### The Climate Corporation, Software Engineering Intern

May 2019 – Present

- Built an API in Scala that decomposes large field data to successfully process previously failing field processing jobs.
- Manipulated geospatial data to reduce fields into sub-fields such that field data is uniformly distributed.
- Utilized AWS services to get job requests, read, and write files.

### US Bank, Software Engineering 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.
- Updated stored procedures and functions that generate reports affected by table design changes.

## PROJECTS AND TEAM EXPERIENCE

### CS 49000 IOS, PurdueWashServer

April 2019

- Wrote a server and web scraper in Go that would scrape the Purdue ITaP website for laundry data.
- Designed an iOS app that would display Purdue laundry machine information.

### PickHacks, FoodCycle

March 2019

- Created an iOS app that takes a photo of food and logs the associated nutritional info for user.
- Integrated Food101 CoreML and Nutritionix API.

### BoilerMake, Sunshine

Fall 2018

- A user-driven Alexa skill and web application that suggests clothing based off weather and user's response to different weather conditions.
- Analyzed and generated training datasets using Dark Sky API.

### Purdue IEEE Software Saturdays, Mentor

August 2018 – May 2019

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

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

January 2018 – July 2019

- Built middleware with python sockets to facilitate streams of data between base station and robot.
- Implemented a pressure sensor that returns relative depth in a pool using python.

## SKILLS

### Programming Languages

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

### Frameworks and Skills

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

## RELEVANT COURSEWORK

Abstract Algebra, Data Structures and Algorithms, Computer Architecture, 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

VandyHacks Dollar General Challenge Winner

Fall 2018

AITP SigAPP Challenge, Second Place

Spring 2018

Dean's List and Semester Honors, College of Engineering

Fall 2017 – Spring 2019

BoilerMake Bloomberg Puzzle Challenges, Sub-Challenge Winner

Fall 2017