

# Jeremy Chang

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## Education

### Purdue University

B.S. COMPUTER SCIENCE CONCENTRATION IN SECURITY, MINOR IN MATHEMATICS

- GPA: 3.63/4.0

West Lafayette, IN

Aug 2017 - May 2021

## Experience

### The Climate Corporation

SOFTWARE ENGINEERING INTERN

- 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.
- Restored hundreds of farmer's data by successfully processing their fields.
- Utilized AWS services to get job requests, read, and write files.

St. Louis, MO

May 2019 - Aug 2019

### US Bank

SOFTWARE ENGINEERING INTERN

- Developed an application to manage database tables with Microsoft's web application framework (ASP.NET MVC).
- Redesigned 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.

St. Louis, MO

Jun 2018 - Aug 2018

### Purdue IEEE Remotely Operated underwater Vehicle

SOFTWARE TEAM MEMBER

- 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.

West Lafayette, IN

Jan 2019 - Jul 2019

### Purdue IEEE Software Saturdays

MENTOR

- Facilitated bi-weekly session teaching full stack development.
- Prepared sample Node.js, Sqlite3, and JavaScript code for teaching sessions.

West Lafayette, IN

Aug 2018 - May 2019

### Undergraduate Teaching Assistant

PROBLEM SOLVING AND OBJECT-ORIENTED PROGRAMMING

- Held lab sessions to help students understand their weekly Java programming assignments.

West Lafayette, IN

Aug 2019 - Present

## Projects

**Purdue Wash Server** A server written in Go that scrapes Purdue ITaP website for laundry availability and handles requests from an iOS app for information.

**FoodCycle** An iOS application that allows a user to log their nutritional information from a picture of their meal.

**Dollar for Dollar** A user-driven Alexa skill that allows customers to ask about the price of grocery products from Dollar General and add those products to their shopping cart.

**Sunshine** A user-driven Alexa skill and web application that suggests clothing based off weather and user's response to different weather conditions.

## Skills

**Languages** Java, Scala, C, Go, JavaScript, Python, MATLAB, C#

**Technologies** Scalatra Swagger, sbt, ASP.NET MVC, SQL Server, AWS, NodeJS, Sqlite3, jQuery, UNIX, Git

## Honors and Awards

2019 **DURI Program Research Fellowship**, Purdue University

2018 **Vandyhacks Dollar General Challenge Winner**, Vanderbilt University

2018 **AITP SigAPP Challenge, Second Place**, Purdue University

2017-2019 **Dean's List and Semester Honors**, Purdue University

West Lafayette, IN

Nashville, TN

West Lafayette, IN

West Lafayette, IN