Jeremy Chang

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Education

Purdue University *West Lafayette, IN*

B.S. Computer Science Concentration in Security, Minor in Mathematics *Aug 2017 - May 2021*
- GPA: 3.63/4.0

Experience

The Climate Corporation *St. Louis, MO*

Software Engineering Intern *May 2019 - Aug 2019*
- 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 and to read and write associated avro files.

US Bank *St. Louis, MO*

Software Engineering Intern *Jun 2018 - Aug 2018*
- 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.

Purdue IEEE Remotely Operated underwater Vehicle *West Lafayette, IN*

Software Team Member *Jan 2019 - Jul 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.

Purdue IEEE Software Saturdays *West Lafayette, IN*

Mentor *Aug 2018 - May 2019*
- Facilitated bi-weekly sessions teaching full stack development.
- Prepared sample Node.js, Sqlite3, and JavaScript code for teaching sessions.

Undergraduate Teaching Assistant *West Lafayette, IN*

Problem Solving and Object-Oriented Programming *Aug 2019 - Present*
- Held lab sessions to help students understand their weekly Java programming assignments.

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.

Skills

Languages Java, Python, Scala, C, Go, JavaScript, MATLAB, SQL
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	*West Lafayette, IN*
2018	**Vandyhacks Dollar General Challenge Winner**, Vanderbilt University	*Nashville, TN*
2018	**AITP SigAPP Challenge, Second Place**, Purdue University	*West Lafayette, IN*
2017-2019	**Dean's List and Semester Honors**, Purdue University	*West Lafayette, IN*