

Hannah S. Lee

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EXPERIENCE

Software Engineer II

July 2020 – Present

Disney Streaming – New York, NY

- Build & maintain API Fraud Prevention pipeline for streaming apps (Disney+, Hulu, Espn) under Disney Streaming
- Kicked off partnership with Data Engineering team by designing infrastructure for persisting data; transporting 200K records/day to S3 and enabling 7 new databricks notebooks
- Developed batch-processing jobs using Flink to aggregate API traffic for analysis
- Designed HTTP applications using Scala HTTP4s running on Kubernetes
- Improved fraud pipeline efficiency by rearchitecting AWS WAF and DynamoDB, catching 100K+ repeat offenders monthly and freeing computing power
- Led the development and implementation of APIs for 5 external teams to integrate with fraud pipeline blocks
- Identified external team requirements and modified API contract to align with their asks
- Create discovery documents for upcoming features and products, create and own resulting tickets and epics, managed projects from research spike to implementation
- Present architecture overviews to the larger organization of my team, demo-ing my team's pipeline to 100+ viewers

Software Developer Intern

June 2019 – August 2019

Orbweaver Sourcing, LLC – Bethlehem, PA

- Used Ruby on Rails to migrate a large codebase to a hyper-scalable, microservice-driven architecture on AWS, bringing in more clients to the Product Information Management platform
- Added client-requested features to the UI using the Angular framework

Undergraduate Teaching Assistant

January 2019 - May 2020

Lehigh University – Bethlehem, PA

- Serve as assistant to the professor for courses: Programming & Data Structures, Discrete Structures & Algorithms
- Hold weekly office hours to assist ~10 students weekly in learning course material
- Assess students' performance and offer critical feedback to help students grow in the course

PROJECTS

"Smart Park"

January 2019 - December 2019

- Created an Android app to simplify the parking experience at Lehigh University using HC-SR04 ultrasonic sensors
- Built backend using Python, Flask, and MySQL to hold parking garage data for 3 garages on campus
- Wrote scripts for Raspberry Pi to run at boot as a microcontroller, socket code for microcontrollers to talk to server

"NutriSnap" Smart Nutrition Counter

February 2019

- Awarded "Best Health Hack" out of 30 teams at PennApps – University of Pennsylvania's Annual Hackathon
- Created text-message based service that allows users to track their nutritional intake for the day by integrating various APIs including Twilio, Google's CloudVision, and NutritionIX
- Built and maintained backend using Java and Maven

"The Buzz" Message Board Android App

August 2018 – December 2018

- Backend: Implemented Google OAuth, managed databases using Postgres, database operations with JDBC
- Project Manager: documented team members' progress and provided assistance as needed via pair programming

EDUCATION

Lehigh University, P.C. Rossin College of Engineering & Applied Science - Bethlehem, PA

Bachelor of Science in Computer Science | Minor in Psychology

- *Honors*: Dean's List, National Society of Collegiate Scholars

SKILLS

- **Technologies**: AWS (Lambda, Kinesis, DynamoDB, S3, Cloudformation, Cloudwatch, ECS) Unix, Swagger, Docker, Git, Jenkins
- **Programming Languages**: Scala, Python, Java, Lua, SQL