

Hannah S. Lee

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EXPERIENCE

Software Engineer II

July 2020 – Present

Disney Streaming – New York, NY

- Develop and maintain critical services for safeguarding public APIs of streaming apps (Disney+, Hulu, ESPN) under Disney Streaming, demonstrating expertise in Scala programming and HTTP service development
- Collaborate with cross-functional teams, including machine learning and customer service
- Spearheaded partnership with the Data Engineering team, designing infrastructure for data persistence, enabling transportation of over 200K records daily to S3.
- Improved fraud pipeline efficiency by rearchitecting AWS WAF and DynamoDB, catching 100K+ repeat offenders
- Led the development and implementation of APIs for 5+ external teams to seamlessly interact with fraud pipeline
- Pioneered implementation for canary deployment pipeline in Spinnaker with Istio for Kubernetes-based application
- Collaborate with cross-functional teams, including machine learning and customer service
- Create discovery documents for upcoming features and products, create and own resulting tickets and epics, managed projects from research spike to implementation
- Presented architecture overviews to an audience of 100+

Software Developer Intern

June 2019 – August 2019

Orbweaver Sourcing, LLC – Bethlehem, PA

- Leveraged Ruby on Rails to lead the migration of a substantial codebase to a highly scalable, microservice-driven architecture on AWS, expanding the client base for the Product Information Management platform
- Enhanced the user interface via implementing client-requested features within the Angular framework

Undergraduate Teaching Assistant

January 2019 - May 2020

Lehigh University – Bethlehem, PA

- Served as assistant to the professor for courses: Programming & Data Structures, Discrete Structures & Algorithms
- Held weekly office hours to assist 10 students weekly in comprehending course material
- Evaluated student performance and offered constructive feedback to foster their academic growth

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 manage parking garage data for 3 campus garages
- Wrote Raspberry Pi scripts for microcontroller functionality and implemented socket code for seamless server communication

“NutriSnap” Smart Nutrition Counter

February 2019

- Awarded “Best Health Hack” among 30 teams at PennApps – University of Pennsylvania’s Annual Hackathon
- Conceptualized and implemented text-message based service empowering users to track their daily nutritional intake by integrating various API’s including Twilio, Google’s CloudVision, and NutritionIX
- Developed and maintained backend using Java and Maven

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, EKS), Redis, Unix, Swagger, Docker, Git, Jenkins
- **Programming Languages:** Scala, Python, Java, Lua, SQL

Volunteer Work

Paws NY - New York, NY

March 2023-Present

- Assisting individuals with mobility challenges in taking care of their pets