Heng Lam

hlam93@utexas.edu

(832) 310-6748

EDUCATION

The University of Texas at Austin, Austin, TX

Bachelor of Science and Arts in Computer Science, Minor in Business   August 2011 - May 2016

EXPERIENCE

AT&T, Dallas, TX – Houston, TX

Software Engineer II   January 2021 - present

- Led full-stack development and product management for a homegrown web application using Node.js, React and MySQL enabling field engineers faster build times by 2x of zero-day configurations for Cisco equipment deployed within the corporate firewall
- Converted business logic for assembling near real-time data across network information systems, from CakePHP application onto a Python equivalent in GraphQL for injection into 100+ Jinja/Smarty templates for Day 1 and ongoing configuration deployments
- Using bash and cronie, wrote the automation for testing of Python API and ensure QA of data assembled supporting 30+ actively used equipment types will generate, in an E2E fashion
- Used Docker for monthly release deployments alongside HAProxy for monitoring application performance
- Reduced software vulnerabilities by partnering with cybersecurity team in maintaining 6 on-prem servers with regularly scheduled patching for quick remediation

Software Engineer I   January 2018 - December 2020

- In TDD fashion, developed REST APIs and integrated with frontend interface using Java Spring Boot and Angular 1 to manage financial and human resources data empowering users with a dashboard to visualize budget forecasting
- Developed a mobile application using Expo/React Native and integrated with Ruby backend APIs as part of Corporate Social Good initiative, AT&T Believes, accomplishing 10,000+ user downloads on Google Play alone
- Explored methods of implementation for building the prototype for a notification system in delivering real-time time-sensitive messages for a user base of 1 to 500
- Collaborated both locally and remotely across weekly scrum calls, monthly planning sessions and ad-hoc whiteboarding sessions

University of Texas at Austin, Austin, TX   September 2013 – May 2014

Undergraduate Research Assistant

- Performed technical graphing and data analysis of 100+ image frames using IGOR for the Integrative Biology Department to identify trends and other useful information in the study of polarized light
- Used a combination of Parallel Tracking and Mapping (PTAM) and Point Cloud Library (PCL) to extract point clouds from video captured in the field

COURSEWORK

- Java: Introduction to Programming & Data Structures
  - Explored concepts of basic computer architecture and software components
  - Used Java to explore the fundamentals of computing and programming, data structures and their performance
- PL/SQL: Data Management
  - Concepts of database design and database system implementation: SQL, NoSQL, Data Modeling, Database Application Development, Query Processing, Database Design Theory, Transactions and Concurrency Control, and Crash Recovery
- HTML/PHP
  - Designed and implemented PHP web applications using CSS/HTML forms, session support and SQL

TECHNICAL SKILLS

- Languages: Java, Python, JavaScript, SQL (Oracle & MySQL), GraphQL, HTML/CSS
- Frameworks: React, React Native, Node.js, Angular 1 & 7, EvergreenUI, Spring Boot, ONAP, HAProxy
- Developer Tools: Git, Docker, IntelliJ, VS Code, Eclipse, Postman, SoapUI, Expo, MySQL Workbench
- Platforms: Palantir, ServiceNow, JFrog

- Libraries: cronie, Junit, Karma, d3.js