

Alanna Pasco

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EDUCATION

Northeastern University

M.S. Computer Science

May 2023

Coursework: Systems; Algorithms; Object-Oriented Design; Software Development; Mobile Development

Conferences: Notorious RTC 2022; Grace Hopper Celebration (GHC) 2022

GPA: 3.88

B.A. International Affairs

Aug 2020

TECHNICAL KNOWLEDGE

Expert: Java, Kotlin; **Proficient:** Python, C; **Prior Experience:** HTML/CSS/Javascript, Typescript

Tools/Frameworks: AWS; DevOps; GraphQL; Django; Pytest; Android Studio; Firebase; Git/Github

ACADEMIC PROJECTS

Android Dog Walking App

Summer 2021

- Constructed backend of mobile app that tracks, shares dog care, including walk reminders
- Accelerated time by pre-planning strong data architecture; managed app data in Firebase Realtime Database
- Minimized UI latency by creating utility to put and fetch data from Firebase off main GUI thread

AI Game Server

Fall 2020

- Pair programmed a scalable client-server gaming system in Java that hosts games of *Hey, That's my Fish!* and provides a server to which hackers can connect AI players to compete in tournaments
- Articulated and defended design choices in three code walks in front of class of 50 students
- Developed AI player API and composed detailed protocol documentation for the API

Graph Theory Game

Spring 2018

- Individually developed back and frontend of *Light 'Em All*, a game founded on graph theory where users rotate tiles, connect wires, and advance a power ball through the wire graph until the entire city grid is connected and lit
- Generated wire grid using Kruskal's algorithm, identifying min spanning tree before rotating for gameplay
- Traversed wires using breadth-first search from power node and visually lit up tiles within a defined radius

PROFESSIONAL EXPERIENCE

Amazon Web Services - Elastic File System (EFS)

Boston, MA

Software Development Engineer Intern

Sep - Dec 2022

- Reducing customer-impacting failures by implementing more effective canary testing of the EFS API service

Chewy - Pet Health Engineering, PracticeHub Clinical App

Boston, MA

Backend Engineer Intern

Jan - Mar 2022

- Strengthened communication between stakeholders by building backend storage, retrieval, display of prescription IDs
- Accelerated onboarding of 4+ full-time hires by composing 20+ pages of technical training documentation in a self-started initiative to unify future developers' knowledge with targeted guides, architecture diagrams, and dev resources

Android Mobile Developer Intern

Apr - Jun 2022

- Uncovered untested user workflows by taking a customer-perspective approach to testing and using MixPanel to assess
- Advocated for accessibility in self-started initiative by performing accessibility audit on iOS and Android apps using human-computer interaction principles and making cognitive, visual, and motor enhancements to features

Khoury College of Computer Sciences, Northeastern University

Boston, MA

CS 4500 Software Development Teaching Assistant

Sep - Dec 2021

- Critically reviewed assignment submissions written in students' chosen programming language
- Improved students' understanding of course material by hosting office hour lectures, delivering assignment feedback

Apple Inc.

Cambridge, MA

Specialist

Oct 2014 - May 2016

- Matched customers to enriching products and services by anticipating, probing for their needs
- Built relationships with team of over 75 staff members by delivering and receiving feedback regularly