Allen Poon

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Objective

Senior Computer Science student looking to secure a full-time job for a Software Engineering position where my disciplined work ethic, adaptable technical abilities, and communication skills can be applied.

Education

UNIVERSITY OF PITTSBURGH **AUGUST 2015 – APRIL 2019**

B.S. Computer Science Minor: Economics GPA: 3.6

Related coursework:

- Intermediate Programming using Java
- First-Experiences in Research – Monte Carlo: 2D Ising Model Computer Simulation (Java, Python)
- Discrete Structures for Computer Science
- Data Structures (Java)
- Computer Organization & Assembly Language (MIPS – Assembly Language, Logisim)
- Intro to Systems Software (C)
- Computer Architecture (C)
- Algorithm Implementation (Java)
- Applied Cryptography and Network Security (Java)
- Formal Methods in Computer Science
- Database Management (SQL, Oracle)
- Android Programming (Java, XML, Firebase)
- Software Quality Assurance (Ruby)
- Intro to Operating Systems (C)

Technical Skills

Java, C, Android Studio, Python, Ruby, SQL, Oracle, Firebase, MIPS – Assembly Language, Linux, HTML, Visual Basic, Microsoft Office, Processing

Relevant Experience

APPLICATION DEVELOPER INTERN | CIGNA **MAY 2018 – AUGUST 2018**

- TECDP program with Cigna. Worked under Kevin Ryan in the Software Engineering and Innovation (SEI) group.
- Performed dev ops work to improve the build/test/deploy process with other intern developers' applications
- Implemented a Solr feature for Cigna's search engine
- Developed new features for Cigna's Portfolio Estimation Tool
- Implemented a blockchain solution with IBM's Hyperledger Fabric for the Summer Innovation project to keep provider information updated, which is currently an expensive problem for health insurance companies
- Technologies used: Jenkins, TFS, Maven, Springboot, ASP.Net, GitLab, Hyperledger Fabric, Python

RESEARCHER | BENOS LAB - UNIVERSITY OF PITTSBURGH/CARNEGIE MELLON UNIVERSITY **JUNE 2017 – MAY 2018**

- Researched and compared graphical causal model, machine learning algorithms under Dr. Takis Benos to help investigate molecular mechanisms of disease using the Tetrad project built from Java.
- Wrote scripts in Java and Python that analyzed the performance of various causal algorithms under a variety of data types and assumptions.

UNDERGRADUATE RESEARCHER | UNIVERSITY OF PITTSBURGH **JANUARY 2016 – APRIL 2016**

- Researched under Dr. Ken Jordan to examine the Monte Carlo algorithm and various sampling methods using Java and Python to understand its practicalities in computer simulation and relevance in quantum computing.
- Developed an app for the 2D Ising Model to simulate molecular phase transitions for the final project using the Metropolis-Hastings algorithm

WEEKLY VOLUNTEER | COMPUTER REACH **SEPTEMBER 2015 – DECEMBER 2015**

- Recycled and salvaged donated computers/parts to help refurbish/repair nonworking computers in order to resell at a heavily discounted price.
- Replaced OS of computers with Edubuntu to help strengthen education worldwide at areas where technology is lacking

Relevant Activities

College:

Pitt IEEE Club, Computer Science Club, Students for Startups, Innovation Institute, SteelHacks, PennApps XIV, Student Technology Focus Group

High School:

FIRST Robotics FTC Team: Steel Hornets 118 (Robot C),
American Computer Science League All-Stars programming competitions,
Programming competitions at Bloomsburg University, Rowan University, Widener University, and Scranton University