

Andrew Puglionesi

Software engineer

andrewpuglionesi@gmail.com | andrewpuglionesi.com | github.com/aop4

EXPERIENCE

McKesson, Remote

Sr. Associate Software Engineer, McKesson Pharmacy Systems

January 2019 - Present

- Develop and enhance features of a SaaS pharmacy management system handling 1 million prescriptions per day
- Utilize Java, Java EE, Spring Boot, Oracle SQL, Kafka, and Swing for client- and server-side development
- Develop features including COVID-19 vaccine reporting; controlled substance monitoring; an electronic prescribing API; multiple auth flows; third-party notifications; and an asynchronous, vendor-agnostic bidirectional payment interface
- Identified a critical, large-scale requirements gap that could have led to rejection of health insurance claims
- Lead tech workshops and code katas to help others develop their skills
- Lead feature demos for top customers
- Identify tech debt and refactor legacy and current code to align with best practices
- Write unit, integration, and performance tests

UPMC, Pittsburgh

Summer Associate, UPMC Health Plan Consumer Technology

June 2018 - August 2018

- Developed a rewrite of the UPMC Health Plan's primary mobile application using Angular, TypeScript, and NativeScript
- Developed search features that help users find in-network care, a feature for viewing and sending insurance cards, and a feature to notify users of ongoing downtime
- Designed and built an internal desktop application using C#, SQL, and Windows Forms to help employees correct common data issues in a Health Plan database

Carnegie Mellon University, Pittsburgh

Summer Research Intern, Human-Computer Interaction Institute

May 2017 - October 2017

- Designed and developed an online learning community using Python, Django, HTML, CSS, and JavaScript/JQuery
- Integrated video chat functionality for group work using Twilio's JavaScript and Python APIs, set up email notifications with SendGrid's Python API, redesigned the flow for signing up for events on the site based on usability testing, enabled customization of the site to suit different instructors' needs
- Maintained Heroku cloud production server

Meriney Lab, University of Pittsburgh, Pittsburgh

Undergraduate Research Assistant

January 2015 - September 2016

- Refined a computer model of a nerve cell to predict the efficacy of drug dosages in treating a neuromuscular disease
- Wrote scripts for data processing and automated manual processes using Python, AWK, and Bash
- Analyzed data and created data visualizations
- Presented findings through presentations and papers
- Won a grant and a fellowship to support the research

EDUCATION

University of Pittsburgh, Pittsburgh, PA

B.S., Computer Science GPA: 3.97

SKILLS

Skill sets	Object-oriented programming, data structures, algorithms, web applications, user interfaces, automated testing, relational databases, graph databases, REST, data analytics/visualization
Languages	Java, Python, SQL, TypeScript, JavaScript
Tools	Git, Django, Java EE, Spring Boot, React, Angular, Google Cloud Platform