

John Felen

| [www.github.com/johnfelen](https://github.com/johnfelen) |
| johnfelen@pitt.edu |

| www.linkedin.com/in/johnfelen |
| www.johnfelen.com |

Languages and Frameworks

Most Used: Java, JavaScript

Familiar With: HTML, CSS, AngularJS, PHP

Positions and Descriptions

Software Developer, Carnegie Learning • Pittsburgh, PA

May 2016 – Present

CLIENT APPLICATIONS TEAM

- Proposed and implemented a new infrastructure that would increase the speed of the normalization process for the Student Reports in Teacher's Toolkit by over 5 times via finding and learning a new library to perform JSON path operations and refactoring the code to utilize JavaScript's Web Workers
- Lead the project for the front-end portion of Student Reports which entailed becoming familiar with AngularJS, driving the design for the basic front-end system for Student Reports, developing the logic for 2 of the reports alone, and coding a 3rd one with another team member
- Using RequireJS, helped rearchitect and restructure Teacher's Toolkit under a senior developer to make the application more modular, which enabled sections of it to be more easily reusable and standalone

Peer Tutor/Teaching Assistant, University of Pittsburgh • Pittsburgh, PA

January 2015 – May 2016

DEPARTMENT OF COMPUTER SCIENCE

- Assisted students with coding and theory problems in the Computer Science Resource Center
- Conducted laboratory sessions, held office hours, proctored quizzes and graded lab assignments/quizzes for Intermediate Programming using Java and Software Quality Assurance
- Acted as a liaison and project manager between NetApp and selected students in Project Studio

Web/Mobile Developer, FoodChain • Pittsburgh, PA

October 2014 – October 2015

CO-FOUNDER

- Made major design decisions and executed them for ease of use and familiarity between platforms while also taking the initiative to make the Android application and the website have a similar layout scheme and object design with relative positioning
- Designed and wrote the base front-end of the website using HTML, CSS, Bootstrap and JavaScript in one week

Software Projects

Secure File Sharing: As a member of a team, implemented a cryptographically secure file sharing system in Java which utilized Bouncy Castle implementations of Diffie-Hellman key exchange, SHA-256 hashes, HMACs, RSA encryption/signatures, and AES encryption

SCAR: In a research group, developed the Scatter Conceal and Recover project and Android application which used AES encryption and the Reed-Solomon algorithm to securely recreate a file with only k chunks out of the total N distributively stored chunks

Personal Website: Built both the front-end and back-end of a personal website from scratch in HTML, CSS(using Sass), Bootstrap, PHP, JavaScript(with JQuery), and a bit of MySQL

Education

Bachelor of Science, University of Pittsburgh • Pittsburgh, PA

Fall 2013 – Spring 2016

IN COMPUTER SCIENCE WITH HONORS AND A MINOR IN ECONOMICS

GPA: 3.643 · Magna Cum Laude

Community Involvement

Volunteer Professional, Mt. Lebanon Fire Department • Pittsburgh, PA

January 2017 – Present

PROBATIONARY FIREFIGHTER

- Worked with other volunteer and career firefighters to save property and lives in Mt. Lebanon
- Took part in community events on behalf of the fire department such as Relay For Life and the Memorial Day Parade