

John Felen

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Education

University of Pittsburgh • Pittsburgh, PA GPA: 3.643 (Fall 2013 – Expected: Spring 2016)

- Bachelor of Science in Computer Science(Honors), Minor in Economics *Magna Cum Laude*

Languages and Frameworks

Java, C, Android, HTML, CSS, Bootstrap, JavaScript, and PHP

Positions and Descriptions

Peer Tutor, University of Pittsburgh • Pittsburgh, PA (Aug 2015 – Present)

- Assisted students with coding and theory problems in the Computer Science Resource Center
- Courses included Introduction to Computer Programming, Web Site Design & Development, Data Structures, Introduction to Systems Software, and Algorithm Implementation

Undergraduate Researcher, University of Pittsburgh • Pittsburgh, PA (April 2015 – Dec 2015)

- In the team that built the Scatter Conceal and Recover(SCAR) algorithm and Android application
- It used AES encryption and the Reed-Solomon algorithm to securely recreate a file with only k chunks out of N total stored chunks

Undergraduate Teaching Assistant, University of Pittsburgh • Pittsburgh, PA (Jan 2015 – Present)

- 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 and Co-founder, FoodChain • Pittsburgh, PA (Oct 2014 – Oct 2015)

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

Software Projects

- 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
- Built a simple two-level directory file system in C with the FUSE library to be used in Linux
- Coded both layers of personal website from scratch in HTML, CSS, Bootstrap, PHP and JavaScript

Campus Involvement

- Took part in Pitt Computer Science Club (Fall 2014 – Present)
- Contributed to and co-organized Students for Startups (Spring 2014 – Present)
- Trained in Pitt Krav Maga (Fall 2013 – Present)