

Samuel Itman

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Citizenship: USA

Special Hiring Authority: N/A

Federal Experience: N/A

Clearance: N/A

OBJECTIVE: SFS student seeking a full-time internship during the Summer of 2022.

EDUCATION:

NSF CyberCorps SFS Scholar

New Jersey Institute of Technology, Newark, NJ

2019-Present

Anticipated BS completion: Dec. 2022, Anticipated MS completion: May 2024.

- BS Information Technology & Business Minor
- MS IT Administration and Security
- GPA: 4.0
- Courses: Computer Systems Security, Ethical Hacking, Networking Technology, Internet Applications, Computer Programming, Wireless Networks, System Administration, Database Administration

Indian Hills High School, Oakland, NJ

September 2015 – June 2019

- GPA: 4.42
- Accolades: National Honors Society, World Languages National Honors Society, Swim Team Captain, Class Delegate, Class Cabinet, STEM club founder

EMPLOYMENT HISTORY:

Optum – United Health Group
Technology Development Program Intern
June 2021 – August 2021

131 Morristown Rd, Basking Ridge, NJ 07920

As part of an international team of interns with Optum Technology, contributed to the development of an online dashboard (Provider Central Portal) as well as two applications (Directory Maintenance & Directory Reporting) to be used by internal users of Optum and UnitedHealth Group. Designed, developed, tested, deployed, and presented progress in daily agile environment meetings as well as bi-weekly Shark-Tank events to product owners and upper-level management.

- The dashboard and web applications were developed using ReactJS for interactive and efficient front ends. They were then deployed to Kubernetes using multiple AWS services as part of a CICD deployment pipeline including tools such as Docker, Jest, Sonar, Twistlock, AWS Elastic Container Registry, AWS Elastic Kubernetes Service, Helm, and Jenkins for automation. Integrated Single Sign-On (SSO) functionality, Role-Based Access for added security layers, API queries using GraphQL, and a backend database on AWS Relational Database Service (RDS) for data handling, storage, and additional security.
- Once implemented and launched on UnitedHealth Group's intranet, the dashboard and apps were used to replace old and inefficient legacy systems for internal users to connect with, query, and manipulate data in the organization's monolithic healthcare provider databases.

KIPP – NJ
Information Technology Intern
July 2020 – August 2020

60 Park Pl, #802, Newark, NJ 07102

KIPP stands for the "Knowledge is Power Program" and is the largest network of public charter schools in the nation, primarily serving low-income communities. As an IT intern during the Summer of 2020, I assumed additional responsibilities due to restrictions set in place during the pandemic. With the transition to online schooling, there was a sense of urgency to prepare all technology at school locations and ensure that every student had a working device for virtual classes.

- Set-up, configured, tested, and troubleshoot hardware at all 11 sites in Newark. Resolved network and connectivity issues. Enrolled new computers for enterprise management, deployed devices for distribution. Inspected, factory reset, configured, and re-enrolled decommissioned devices. Opened vendor repair tickets and distributed outgoing repairs. Performed on-site tech audits and asset management. Ensured proper cabling standards, crimped network cables to rewire, organize, and manage switches.

Transitioned into a tech-support role at the end of the Summer, assisting teachers and staff with computer and other device issues to facilitate a smooth start to the virtual school year.

SKILLS SUMMARY:

- Computer Programming
 - Experienced in full-stack web development in both a personal and production level setting: developed a mock-e-commerce store (PHP, HTML, CSS, SQL) and various webapps (ReactJS, HTML, CSS, GraphQL, SQL) for Optum – UnitedHealth during internship. Created a socket server chatroom in Java, an automated trading program in C, and various video games in C# using Unity. Created and managed CI/CD deployment pipelines using Jenkins, docker, Kubernetes, and helm.
- Software Development Security
 - Successfully integrated enterprise level Single-Sign-On in Optum internship summer project and used the Ping Federate authentication as well as OAuth 2.0 authorization schemes to establish role-based access in our webapps. Handled inter-app data communication regarding sessions and user roles in a backend database on AWS-RDS for added security. Enforced role-based access policies in personal e-commerce store project as well as session-based security utilizing a PhpMyAdmin database.
- System Administration
 - Used VirtualBox to create virtual Linux environments. Studied command line to perform tasks such as user management, disk partitioning, firewall rules, filesystem navigation, packages, and processes.
- Network Monitoring
 - Utilized palo alto networking tools to monitor and analyze network traffic, create access & security policies, firewall rules, certificates, encryption & decryption, website filtering, configuring virtual subnets, and other network hardening measures.
- Cloud Computing Services
 - Experience in Amazon Elastic Container Registry, Elastic Kubernetes Service, and Relational Database Service from Summer Internship with Optum. Utilized Google Cloud Platform instances to host personal projects: e-commerce store and chatroom server.
- Troubleshooting
 - As an IT intern with KIPP-NJ, resolved numerous issues with school technology including laptops, printers, projectors, telephones, and acoustic systems. Assisted staff with computer issues in an IT-support role.
- Oral Presentation & Communication
 - During time as an intern with Optum-UnitedHealth Group, conducted daily standup meetings with the team in an agile development environment. Presented project progress to higher management and other intern teams in bi-weekly showcases.
- Languages: Intermediate Spanish and Russian speaker, reader, and writer.

COMPUTER SOFTWARE:

- **Tools:**

- Cloud Computing Services:
 - AWS Elastic Container Registry, AWS Elastic Kubernetes Service, AWS Relational Database Service, Google Cloud Platform
- CI/CD Deployment:
 - Docker, Jenkins, Helm, Kubernetes, Jest, Sonar, Twistlock
- Kali Linux:
 - Ethical hacking and pen testing using Metasploit, nmap, vulnerability scanners, and WEP/WPA auditing tools
- Networking Technology:
 - Palo Alto Networks, VirtualBox, Wireshark
- Web Development:
 - LAMP: Linux, Apache, MySQL, PHP My Admin, Microsoft Visual Studio Code

- **Programming Languages:**

- JavaScript, Python, PHP, SQL, Java, HTML, CSS, C#, ReactJS, GraphQL

ACCOMPLISHMENTS:

- Significantly exceeded expected progress during the Optum Summer 2021 Technology Development Program internship. A project that was at first simply creating one dashboard UI, turned into a full stack project of three separate web apps that were secured with SSO, role-based access, and a database. Recognized by supervisors as the highest skilled speaker.
- As an intern with KIPP-NJ, due to covid restrictions, started nearly halfway into the Summer and had half of the anticipated tech team members. Adapted to the urgent environment to successfully complete all objectives and even transitioned into a tech-support role to further assist the organization and broaden skillset.

HONORS & AWARDS:

- SFS Cyber Corps Scholar
- NJIT Academic Excellence Scholarship
- NJIT Freshman Highlander Scholarship
- National AP Scholar Award

EXTRACURRICULARS:

- SFSCon 2021
- CyberForce Cybersecurity Competition – Blue Team

REFERENCES FOR SAMUEL ITMAN:

- Kevin O'Brien; kevin_obrien@optum.com, 917-232-9361
 - Senior IT Manager at Optum
 - Worked closely under Kevin's management in the development of various web applications during the Summer of 2021. Regularly presented progress updates in an agile work environment.
- Cody Tanner; ctanner@kippnj.org, 201-988-4831
 - IT Manager at KIPP-NJ
 - Collaborated daily with Cody in all 11 Newark locations to set up classroom technology, analyze and prepare laptops for distribution, and assist staff members.
- Matthew Toegel; matthew.toegel@njit.edu, 908-444-6544
 - Informatics Professor at NJIT
 - Developed two projects under Professor Toegel in his Internet Applications & Advanced Programming for Information Technology courses. Created a mock-ecommerce site with a database using as well as a socket server chatroom.
- Nicole DeCaro; nicole@bbswim.org, 845-721-1786
 - Head coach of the Bergen Barracudas Swim Team
 - Swam under Nicole's supervision for nearly 10 years consistently at both practice and high caliber competitions. Elected as the team captain during senior year of high school.
- Paul Semeran; psemeran@yahoo.com, 201-888-2402
 - Crew Chief at the United States Air Force
 - Lifelong friend and federal employee, I grew up alongside Paul as a fellow first generation Russian-American and dedicated swimmer.