

John McKernan

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PROFILE

Savvy software developer with a passion for learning and a talent for quickly mastering new technology.

EDUCATION

Purdue University (Expected May 2021) – West Lafayette, IN – GPA: 3.82

- B.S. in Computer Science, Minors in Forensic Science & Computer Information Technology
 - Purdue Presidential Scholarship – 2017 to present
 - Relevant Courses: Operating Systems, Compilers, Computer Networks, Systems Development, Software Engineering, Data Structures and Algorithms, Computer Architecture, Cyber Forensics
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LEADERSHIP & AWARDS

- Mentor at Purdue's Hello World Hackathon – Fall 2019, Fall 2020
 - Teaching Assistant for Programming with Multimedia Objects in Python – Spring 2018
 - Co-Founder of Symboxtra Software – Spring 2017 – partnership responsible for creating, supporting, and contributing to open-source projects
 - Best Web Development Application – vroadtrip.tk – Hello World Hackathon – Fall 2017
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SKILLS & TECHNOLOGIES

Python, Angular, JavaScript, C++, SQL, Git, Bash, PowerShell, Docker, Qt, Java, Jenkins, SVN, PHP, C, C#

EXPERIENCE

Software Engineering Intern, Chief Security Office, AT&T Inc. – June 2020 to August 2020

- Joined the Cloud Security Architecture team to help assist and secure the transition of more than 4,000 applications from on-premise data centers to the public cloud
- Satisfied and implemented business requirements for new automation, security, and architecture
- Helped transform cloud firewall requests (5 to 10 day turnaround) into a quick automated process
- Took a leadership role in two additional team projects: a web app and a data modeling project

Engineering Intern, OceanComm Inc., Chicago, IL – May 2019 to May 2020

- Contributed to research, development, and commercialization of underwater acoustic modems
- Optimized video processing and compression for low-bandwidth streaming via acoustic link
- Revamped an existing analytics application to simplify and extend data processing and visualization
- Containerized applications and services using Docker for reliable and portable use
- Abstracted and integrated various sensors and peripherals (GPS, LoRa, IMU, Camera)

Software Intern, Automated Test Engineering - Shure Inc., Niles, IL – May 2018 to August 2018

- Worked with a team of hardware engineers to support manufacturing/product validation systems
 - Developed and maintained mission-critical tools, databases, and websites for 10 global plants
 - Learned new languages and technologies (C#, SVN, Visual Basic) on-the-job doing full-stack work
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PROJECTS

SplitSound – In Progress – C++, V8, CMake, JavaScript, Electron, Flutter, Google Compute Engine

- Developed audio sharing software for turning any smartphone into a wireless speaker or headphone receiver; permits sharing of audio from any networked computer to other devices
- Built cross-platform desktop and mobile applications with a team of friends
- Created a V8-based C++ addon to enable passing audio data from C++ to JavaScript