

John McKernan

jmckern@purdue.edu | github.com/jmcker | linkedin.com/in/jmcker

PROFILE

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

EDUCATION

Purdue University (May 2021) – West Lafayette, IN – GPA: 3.85

- B.S. in Computer Science, Minors in Computer Information Technology & Forensic Science
 - Purdue Presidential Scholarship – 2017 to 2021
 - Relevant Coursework: 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
 - Partner at Symboxtra Software – Spring 2017 to present – 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, C, Java, Jenkins, SVN, PHP, C#

EXPERIENCE

AT&T, Chief Security Office, Software Engineering Intern *Remote June 2020 – August 2020*

- Joined the Cloud Security Architecture team to assist with and help 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

OceanComm, R&D, Engineering Intern, *Chicago, IL May 2019 – May 2020*

- Contributed to research, development, and commercialization of underwater acoustic modems
- Optimized video processing and compression for low-bandwidth streaming via acoustic link
- Rebuilt 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 hardware sensors and peripherals (GPS, LoRa, IMU, Camera)

Shure, Automated Test Engineering, Software Intern *Niles, IL May 2018 – 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 – 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 stream system audio into Electron's WebAudio graph