

# Jacob Schooley

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## Education

### BRIGHAM YOUNG UNIVERSITY | APRIL 2024

- Majoring in Cybersecurity
- Relevant Coursework - Web-based IT, Computer Architecture, Operating Systems, Networking, Red Team/Blue Team, Digital Communications
- Participated in multiple Capture the Flag competitions as part of the BYU Cybersecurity Student Association
- GPA 3.76

## Experience

### LEAD BACKEND ENGINEER | 2021 - CURRENT

*Ourco, Inc*

- Designed and engineered the backend for a startup application from the ground up using AWS AppSync, Lambda, OpenSearch, and DynamoDB
- CI/CD with AWS Amplify, CDK, CloudFormation
- REST & GraphQL API development and implementation
- Database design and development
- Agile project management using Jira

### CONTRACT SOFTWARE / IT ENGINEER | 2018 - CURRENT

*Bitzero Technology LLC*

- Development of serverless, scalable applications using Amazon Web Services
- API security testing, reporting, and improvement
- Threat detection, mitigation, and recovery
- Web development using React and PHP
- Dataset mining, cleaning, transformation for statistical analysis using Python
- Office 365 administration and Microsoft SharePoint development

### SOFTWARE DEVELOPER INTERN | SUMMER 2017 AND 2018

*Health Information Technology Consortium, College of Engineering and Computing, UofSC, Columbia, SC*

- Full stack web development using PhoneGap, Ionic, Bootstrap, Linux, Apache, MySQL, PHP, Google Maps API
- Developed web application for physical activity and mobile health research project

### IT ENGINEER INTERN | SUMMER 2016

*Lexington School District One, IT Department, Lexington, SC*

- Developed and implemented a plan to efficiently repurpose thousands of Apple devices for K-12 schools
- Identified network vulnerabilities and assisted in implementation of security improvements

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## Skills

- Network and web debugging/security - Wireshark, Fiddler, Charles, various VPN protocols
- Programming languages - Python, Velocity, Java, HTML5, CSS, JavaScript, PHP
- Backend/API development - AWS AppSync, GraphQL, Lambda, API Gateway, Cognito
- DevOps - Git/GitHub, AWS Amplify and CDK
- Containerization - Docker
- Frontend development frameworks - React, Angular, Bootstrap, Ionic
- Databases - MySQL, NoSQL/DynamoDB
- Cloud administration - Microsoft Office 365, SharePoint, Exchange Server
- Operating system administration - Windows, Linux (Server), MacOS, Android, iOS
- TCP/IP network management
- Quick learner and open to acquiring new skills

## Hobbies/Interests

- API reverse engineering
- Open-source software development
- Side project - BYU Ride Board ([byurideboard.com](http://byurideboard.com))
- Detecting system vulnerabilities
- Testing and improving software and hardware
- Embedded device reverse engineering and repurposing

## Service

- Contributed to multiple open-source software projects
- Two-year service mission for the Church of Jesus Christ of Latter-day Saints
  - Managed a system for broadcasting large meetings for other missionaries with COVID