Joshua Baker

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EDUCATION

University of Vermont   **Burlington, VT**
BS in Computer Science   *May 2023*
- UVM CE Graduate Certificate in Computing: Cyber Security   *April 2022*
- Organizations: Computer Science Crew, Phi Mu Delta, Men's Rugby

WORK EXPERIENCE

Northern Digital Inc.   **Shelburne, VT**
Software Engineer Intern   *May 2022 - August 2022*
- Automated data analysis processes by developing accuracy verification software and database integrations for over 5,000 calibration tests
- Accelerated calibration procedure timeline from 3 days to under 4 hours by implementing batch processing and optimizing remote server
- Used Jira in hand with agile development methods to track progress and manage steady workflow with Software Engineering team

University of Vermont Information Security Office   **Burlington, VT**
Identity Management Support Specialist   *November 2021 - May 2022*
- Developed intrusion detection tools using Perl and JavaScript to suppress account threats and strengthen system security
- Conducted analysis of digital security framework and consolidated breaches to security of system with 50,000+ users
- Facilitated technical support and identity and access management to UVM community members

Projects

What's The Data?
HTML, JavaScript, Python, AWS Tools   *July 2022 - Present*
- Freelance website - resource for neuroscience students to search for PubMed articles based on region, ranking and 10+ other factors
- Built in HTML/CSS
- Lambda function for processing and pushing CSV data to DynamoDB, triggered by S3 updates
- HTTP API gateway for outputting JSON data in HTML table format

The Cloud Resume Challenge
HTML/CSS JavaScript, Python, AWS Tools   *August 2022*
- Personal website built with HTML/CSS
- Custom DNS and HTTPS
- Site visitor metrics hosted on DynamoDB and fetched using API gateway
- Serverless application model for defining API resources - deployed via AWS SAM CLI
- Frontend CI/CD testing for bucket updates and backend CI/CD testing for Lambda function

SKILLS

Languages: Python (expert), Java (expert), HTML/CSS (expert), JavaScript (proficient), C++ (proficient), MySQL (proficient), Go (prior experience)

Technologies: Docker, Kubernetes, AWS (Lambda, EC2, DynamoDB, Route 53), REST, Terraform, Jira, Git