



IAN SAWLOR

SOFTWARE DEVELOPER

PERSONAL PROFILE

Skilled Developer with appetite for learning new skills and applying them successfully both professionally and personally

CONTACT

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Fredericton, NB
Canada

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 /ian-sawlor

EDUCATION

University of New Brunswick
Bachelor of Computer Science

SKILLS

- Experienced in Full-stack web-app development using SOLID design principles
- Successfully worked in a variety of team environments
- Demonstrated ability to work under pressure and deal with constraints
- Able to follow instructions and deliver quality results
- Adept at summarizing and rephrasing concepts for a variety of audiences at differing levels of experience

WORK EXPERIENCE

Canadian Institute for Cybersecurity, Cybersecurity Software Developer

APR 2026 - CURRENT

- Contributed to the architecture design and development of internal cybersecurity web applications and tools using FastAPI in Python, JS, HTML/CSS, PostgreSQL
- Architected, developed, and delivered a tool called Signal Lock which generates realistic-looking data for a variety of file types (XLSX, DOCX, PDF, SQL dumps, etc) across a variety of different content domains (healthcare, ecommerce, government website, etc) and creates honeytokens. These honeytokens are strategically placed in honeypots to log data access and extraction events to a real-time dashboard and correlates IP addresses of attackers with the files they opened, the honeypots they accessed, and other attackers they may have shared the files
- Contributed insights from my experience as a seasoned developer to team discussions and planning sessions, helping to both improve our efficiency working as a team and with troubleshooting roadblocks as we encountered them

PERSONAL ACHIEVEMENTS AND HOBBIES

- Spearheaded the R&D of the Blue Spurs AWS DeepRacer club. Improved initial 12 minute lap down to 28.62 seconds on the Re:Invent 2018 track, which was just 15 seconds shy of the world leader at the time
- I had a 13.5kW Solar generation system installed on my home in 2023 and have been enjoying nearly net zero grid usage ever since. I plan to add battery backup to act as a whole-home UPS in the future
- I'm a 3d printing enthusiast. I model and print my own tools, parts, and prototypes for various personal projects
- I recently started teaching myself woodworking, metal fabrication, and welding. I designed and built my office desk from scratch

COMFORTABLE LANGUAGES / TECH STACKS

Python, Javascript, Typescript, Node.js, React, Angular 16+, PHP, C/C++, Java, C#, AWS, GCP, TensorFlow, Azure DevOps Pipeline, SQL, GIT, Docker

WORK EXPERIENCE CONT.

DynaScape/EverCommerce, Senior Software Developer

SEPT 2021 - NOV 2025

- Planned, developed, documented, and took ownership of AWS cloud infrastructure, Azure DevOps build pipeline, and Auth0 authentication in a shared multi-team multi-tenant configuration
- Developed Infrastructure as Code (IaC) for automatic deployment and rollback of AWS services using Serverless Framework v3.
 - Sped up pipeline builds by ensuring only services with changes would be deployed.
 - Further sped up deployments by rolling common packages/binaries into a custom Lambda Layer using Docker to extend the default Amazon Machine Image (AMI)
- Designed and built API Gateway access layer for our Web Assembly (Wasm) app to securely access user data/configurations stored in S3 and DynamoDB. Primarily using Boto3 in Python
- Contributed to Team's Scrum Master and New Release Demo rotations

Deloitte, Consultant

JUN 2019 - SEPT 2021

- Developed Self-Serve web portals to enhance clients' contact-less service offerings post COVID-19 using Angular 8, 9, and React, respectively
- Built a Chrome extension for showing authenticated users discount offers at participating websites. React front-end/AWS Lambda back-end
- Researched/developed Deloitte Horizon platform (AWS and GCP computer vision/machine learning suite) POCs and tech demos. Using: React, Python, Google AutoML, AWS Lex, Rekognition, Lambda

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WORK EXPERIENCE CONT.

Blue Spurs, Senior Software Developer

AUG 2012 - JUN 2019 (DELOITTE ACQUISITION)

- Lifted and shifted clients' existing web applications into AWS for better availability and cost reduction
- Built new AWS-backed Web applications for clients
- Embedded in a staff augmentation role: developed and maintained software suite for visualizing real-time brand sentiment, customer engagement, and other performance metrics on various social networks using Java, Javascript, Salesforce Apex, Aura, and Lightning
- Researched and developed various Internet of Things (IoT) projects and prototypes broaching topics such as: communicating with remote sensors via LoRaWAN, Machine learning and Object/Text recognition in live video streams, building an Arduino-based educational IoT toolkit meant to help teach Middle and High School students about programming and IoT

NB Power - Point Lepreau Nuclear Generating Station, Engineer/Scientist

JUN 2010 - JUL 2012

- Developed Frontend/Backend, touchscreen interfaces for Control Room simulator in C/C++
- Bugfixed embedded systems (PLCs, RAMDACs) used in the Control Room and Fuel Handling simulators