JULIAN C. HIRN

(+1) 857 800 5625   julian.hirn@protonmail.com   nineluj.github.io

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EDUCATION

Northeastern University, Khoury College of Computer Sciences   **expected Dec 2020**
- BS in Computer Science, Concentration in Cyber Operations
- GPA: 3.76/4.0, Dean's List, NSA Accredited Program (CAE-CO)
- Courses: Software Vulnerabilities, Software Development, Network Security, Wireless Networks, Algorithms, Systems Security, Foundations of Information Assurance, Programming Language

WORK EXPERIENCE

Security Architect Co-op – Boston Consulting Group – Boston MA   **July – Dec 2019**
- Developed a serverless multi-cloud and cross-account Cloud Security assessment tool with Python Lambdas, DynamoDB and CloudWatch for identifying, auditing and remediating misconfigured resources
- Launched web application for configuring alert and enforcement settings using API GW, Lambda and more
- Rectified company-wide security standards to use the OAuth2's Authorization Code flow for authentication
- Conducted application security assessment and vulnerability remediation via static and dynamic analysis (SAST, DAST) against business-critical ML software

Software Engineering Co-op – SmarterTravel (a TripAdvisor company) – Boston MA   **July – Dec 2018**
- Built new pages and enhanced functionality of flight deal aggregator application with Java, JavaScript and React, driving an increase in revenue of $300,000 per year
- Managed versioned releases and deployments using Jira and Jenkins. Ensured code quality with JUnit tests and established manual and automated testing procedures with the QA team

Computer Systems Teaching Assistant – Northeastern University – Boston MA   **Jan – May 2018, 2019**
- Taught students core concepts of computer systems, algorithms and data structures during office hours
- Provided guidance and graded assignments for Linux shells, file systems, memory allocators and more

Full Stack Software Developer Intern – APrivacy – Hong Kong, Hong Kong SAR   **May – July 2017**
- Built web app with AngularJS, Play2 and MySQL to manage and audit user groups and messaging data

PROJECTS

Cloudcrackr – Go, Docker, AWS (ECS, ECR, EC2, S3)
- CLI based cloud orchestration security tool for cracking password hashes with containers
- Architected for convenience, speed, and cost efficiency for penetration testing and ethical hacking tasks

Py-waf – Python, Flask
- Customizable WAF blocking vast majority of SQLi, XSS (Reflected and Stored) attacks from OWASP and XSStrike datasets, includes modules to enforce rate limiting, strong credentials and secure HTTP headers

TECHNICAL KNOWLEDGE

Languages	Proficient: Go, Python, JavaScript/TypeScript | Familiar: Java, C
Platforms & Integration	AWS (core and serverless services), Terraform, Jenkins, MySQL, Splunk
Development Tooling	Git, Flask, React, Express, MySQL, Spring Boot, JUnit, Thymeleaf, Play2

PERSONAL

Languages	Native: English, French, Swedish. Intermediate: Mandarin. Beginner: Spanish
Interests	Language Learning, Squash, CTFs, eSkating, Rock Climbing, Tennis