Yazan Armoush

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EDUCATION

University of Toronto — Toronto, Canada

HBSc | Honours Bachelor of Science in Computer Science — SGPA: 3.5 — *Sep 2021 – April 2026*

EXPERIENCE

Bassem Labs — September 2024 – August 2025

Software Engineer Intern | ReportLab, gRPC, Rust, AWS EC2/ECS, ProtoBuf — *Oakville, Canada*
- Built a PDF generation library with ReportLab that automated report card and student form creation, delivering production-ready features within 12 weeks and eliminating manual processing for 10,000+ documents.
- Optimized gRPC data serialization with Protocol Buffers, generating Rust and TypeScript code and replacing Enums with integer encoding, reducing payload size by 40% and improving request throughput for data transfers.
- Created CI/CD pipelines with GitHub Actions and automated test suites, cutting release cycles from hours to minutes and ensuring consistent high-quality deployments to AWS ECS across staging and production.

Ezee Assist — May 2024 – Aug 2024

Software Engineer Intern | Slack API, Twilio, New Relic, Django — *Toronto, Canada*
- Implemented backend support for scheduled announcements across the web app, Slack, Twilio SMS, and email, automating 5,000+ notifications per day and ensuring timely communication with users.
- Synchronized records between the internal system and the client-facing platform by aligning event triggers and database updates, ensuring accurate and consistent data across both environments.
- Integrated New Relic APM with key endpoints and background jobs, shifting error detection from reactive ticket-based reporting to proactive real-time monitoring, enabling rapid resolution before issues reached users.

Flexiti — May 2023 – Aug 2023

Software Engineer Intern | AWS S3, Pingdom, ReactJS, ReactNative, Angular, Vue — *Toronto, Canada*
- Pioneered the development of a flexible, robust, and adaptable SDK that seamlessly integrates into a wide array of web applications such as React, Angular, and more, thus broadening merchant accessibility and support.
- Accelerated file uploads by enabling AWS S3's automatic region routing (up to 3× faster per region) and integrated CloudFront CDN, reducing response latency for client users across Canada by 90%.
- Developed a cross-framework SDK (React, Angular, Vue, React Native) that expanded merchant integration options and improved accessibility across diverse web applications.

PROJECTS

CasPrep — In Production | *React, Flask, MongoDB, AWS S3, OpenAI, Whisper* — September 2025
- Built and launched CasPrep, an AI-powered platform that simulates CASPer interviews by transcribing and evaluating user video responses with real-time feedback and scoring.
- Implemented full-stack architecture with secure authentication, scalable video storage, and automated evaluation pipelines to support growing user demand.

Hack The North - Health Harbor | *LLMs, Statistics, Data Science, Cohere, AI* — September 2023
- Led the development of a diverse tech stack, including CockroachDB, Flask, Typescript, React, and ChakraUI
- Trained model on enhancing medication classification, disease diagnosis, and medication recommendations.

texttoqrcode.com | *Jira, MongoDB, Firebase, Flask, Typescript, Postman* — March 2023 – Present
- Developed an application for QR code generation, allowing users to customize designs and error correction level.
- Implemented sign-in and sign-up functionality using popular platforms (Google, Apple, etc) via Firebase.

TECHNICAL SKILLS

Languages: Rust, Typescript, Python, Java, C/C++, JavaScript, HTML/CSS, Swift
Frameworks: gRPC, React, React-Native, Node.js, Flask, JUnit, PyTest, Material-UI, Actix, Spring, .NET
Developer Tools: Git, Docker, MongoDB, Google GSuit, VS Code, CLion, PyCharm, IntelliJ, WebStorm, Linux, AWS
Libraries: OpenCV, Protobuf, NumPy, Matplotlib, ReportLab (PDF Generation), Bson, SHA256, RSA2048, RabbitMQ
Soft Skills: Communication, Problem Solving, Collaboration, Adaptability, Critical Thinking, Time Management, Attention to Detail, Learning Agility, Teamwork, Documentation