



Saad Shakil

Software Engineer

Master of Engineering

Sep 2022 - June 2024

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SKILLS

- Over 10 years of Full-Stack Web Systems Development across multiple langs. & frameworks
- Python in Django: 2 YOE, Ruby on Rails: 3 YOE, Go: 2 YOE, Java in GWT, Spring: 5 YOE
- React with JavaScript: 5 YOE, TypeScript & GraphQL: 2 YOE, SQL: 10+ YOE, noSQL: 5 YOE
- Security, IAM, ACL, OAuth2+PKCE, OWASP, Kali Linux, Wireshark
- Unix, Linux, MacOS, Windows, Command Line Interface / Shell, Processes, Concurrency
- IaaS & PaaS - AWS, GCP, Azure, Heroku, Cloud Foundry, Kubernetes, Terraform, Chef
- Object Oriented Programming, Behavior/Test Driven Development, Pairing, Benchmarking
- Complete SDLC in Agile Methodology, Meeting Facilitation, Story Writing, Costing
- Version Control, Continuous Integration, Continuous Deployment, Monitoring
- Leadership, Decision Making, Collaborative, Empathetic, Supportive, Analytical, Self-Motivated, Relationship Management, Mentorship

EXPERIENCE

Projects, Grad School, Entrepreneurship, Toronto, Ottawa

April 2022 to Present

- Leadership experience from Grad school projects, see: [Education](#)
- Applied to Y Combinator and networked with entrepreneurs
- Wrote web apps with ReactJS, RoR, Django, and Spring Boot
 - Currently, evaluating AI classify and predict models from Hugging Face for one project
 - <https://github.com/sshakil/emotion-tracker>

Wave Financial (HR Block), Toronto - Software Engineer

JULY 2020 to MARCH 2022

Collaborative software engineering and maintenance in team Financial Capabilities

- Initiative owner responsible for multiple initiatives
- Implemented and deployed features in multi-repo ecosystem with Django REST and RPC APIs
- Extended front-end features in React with JS, TS, GraphQL, along with legacy HTML and Django templates
- Performed discovery work, code reviewed pull requests, and worked across various business units and functions to plan, prioritize, and execute initiatives
- Investigated and resolved Service Desk tickets by utilizing the data lake, SumoLogic, DataDog, and Sentry

Jiffy on Demand, Toronto - Software Developer

APRIL 2018 to APRIL 2020

- Full-stack development of existing user and pro web apps and common web services using Ruby on Rails, JavaScript ES6, React, PostgreSQL, AWS S3, Google Firestore and Cloud Functions

- Helped with re-write of user web app UI, while maintaining backward compat of API for mobile clients using Object Oriented ReactJS with Redux
- Helped with greenfield development of pro onboarding and summary dashboard web apps with functional ReactJS, Redux, HTML5, CSS3
- Helped introduce several aspects of Agile Methodology picked up from Pivotal with go-ahead from CTO by presenting and participating in pairing, stand-ups, story writing format, collaborative story costing, and weekly retros to the team upon joining
- Paired with new web devs to help them set up and running
- Helped define Clean Code architecture for microservices
- Helped break apart Rails monolith into microservices in Golang
- Led a pair in refactor of a microservice
- Found and fixed bugs, performed testing, and wrote documentation
- Utilized Stripe, LogDNA, SendGrid, among other downstream services for development, operations, and debugging

Pivotal (VMWare), Toronto - *Software Engineer*

MAY 2016 to AUGUST 2017

Rotated through the following four projects:

Open Source Licensing Observer - Supporting web app for legal review team's OSS process

- Collaborated in design and implementation of automated dynamic code scanner and task generator
- Utilized RoR, Bootstrap, EmberJS, License Finder, FOSSology, Docker, AWS, Cloud Foundry, and DelayedJob

Pivotal Network - Custom client-facing CDN

- Helped with full-stack development and maintenance
- Learned and applied RoR, React, CF CLI, Concourse CI
- Learned and utilized various downstream services:- SendGrid, Marketo, Papertrail, Honeybadger

Code Signing - PGP implementation for authentication of distributable binaries

- Helped with back-end implementation

Push Notification Service - A premium offering on Pivotal Cloud Foundry

- Paired to extend the back-end
- Maintained CI environments and performed benchmarking
- Utilized shell scripting, Concourse CI, and Docker

Citibank, Mississauga - *Senior Programmer Analyst*

AUGUST 2015 to DECEMBER 2015

Collaborated on full-stack development and maintenance of critical 'touch-based' trading systems.

Rule 10b51

- Maintained insider trading system for executives

GeoTrader & Citi Velocity

- Co-developed an RMI wrapper on legacy system for Citi Velocity
- Applied knowledge of Java Enterprise, Spring, MSSQL, and AWT

Infusion (Avanade), Toronto - *Software Developer*

FEBRUARY 2014 - MAY 2015

- Collaborated on full-stack web app development and maintenance of Client Onboarding and

Lifecycle Management systems for Credit Suisse.

- Applied Google Web Toolkit (GWT) skills to implement new features
- Integrated with legacy system
- Performed testing, production support, and deployments
- Gained insight about Financial Services market

University Health Network, Toronto - *Technical Analyst*

July 2013 to FEBRUARY 2014

Implemented UI pages for Radiation Therapy treatment review web app.

- Learned GWT and Digital Imaging and Communications in Medicine (DICOM)
- Helped with ER design and page layouts
- Applied GWT to implement UI pages to exactly match design
- Wrote load balanced 'WorkUnit' connector layer, like Java's Callable, used to connect GWT server to C++ endpoints hosting AI system

Research in Motion, Mississauga - *Software Developer*

MAY 2010 to AUGUST 2012

MAY 2008 to AUGUST 2009

Worked on 3 Java Enterprise based internal infrastructure projects.

Software Loading System

- Co-designed and implemented UI and web service to upload software
- Utilized ExtJs and a RESTful web service with Spring Beans
- Wrote unit tests for this and other components in the ecosystem

Identity Capability Resolution Service

- Helped develop new internal service
- Wrote vigorous unit and system tests with JMockit and Junit Provisioning

Extended EJB-based SOAP web services

- Detected and fixed Cross Site Scripting and Forgery issues on UI
- Developed CLI tool to white-list devices and manage audit logs

EDUCATION

University of Ottawa, Ottawa - *Master of Engineering – Engineering Management*

Telfer School of Management and Faculty of Engineering

SEP 2022 to MAY 2024

- Courses in leadership, management, entrepreneurship, finance, accounting, marketing, creativity, data science, sales, and project management
- Learnings from self-selected collaborative leadership in most group projects
- GPA: 3.9/4

Ontario Tech University, Oshawa - *Bachelor of Engineering, Software (Hons)*

2005 to 2010 (includes internship)

- Installed and maintained Joomla installations for several school clubs
- A grades in C, Java, Data Structures, IT, and Leadership, among related courses
- Project Management, Software Quality, Digital Systems, and Electronics courses
- Initiated the Programming Club on campus