JOSIE ESHKENAZI

3B Systems Design Engineering

✉ jeshkena@uwaterloo.ca ⬦ Ⓢ jeshkena@outlook.com ⬦ � josieesh ⬦ ⊕ josieesh.github.io

TECHNICAL SKILLS

Languages	Python, Java, JavaScript/TypeScript, Scala, SQL, C++, Bash
Developer tools	AWS, Docker, Express.js, Flask, git, JDBC, Jenkins, Play Framework, Postman
Data tools	Airflow, Dynamo, MySQL, PostgreSQL, RabbitMQ, Redis, Redshift, Spark, SQS, S3
Concepts	BDD, Data Structures & Algorithms, Functional & OOP, MVC, REST APIs, TDD

EXPERIENCE

PlanGrid, an Autodesk company — *Backend Engineer* — *Sept 2019 - Dec 2019*

· Owned and led the API design, development, and data migrations of the newest feature of PlanGrid's Tasks product - a flexible issue tracker with offline sync capability.

· Transitioned monolithic backend to a microservice architecture with more comprehensive logging, robust schema validation with **Marshmallow**, and **Redis** in-memory caching. Response times were reduced by **100-150ms**.

· Transitioned existing **REST** APIs to **GraphQL** using **Apollo Federation**. This helped to reduce average feature development time by several days.

TunnelBear Inc. — *Backend Developer* — *Jan 2019 - May 2019*

· Shipped scalable, high-throughput APIs of customer-facing VPN application in adherence with rigorous privacy and security benchmarks, and with load demands of **60k+** requests per minute.

· Re-factored TunnelBear's backend to be Functional and asynchronous using **Play Framework**'s and **Scala**'s concepts of Actions, Async, and Futures. Response times of the new services decreased by up to **15%**.

· Leveraged **Redis** and **JWT** to implement OAuth 2.0 industry standard client-server authentication.

TunnelBear Inc. — *Data Engineer* — *May 2018 - Sept 2018*

· Wrote, deployed, and owned internal, fault-tolerant **ETL** pipelines that delivered performance metrics and marketing insight. Additionally, analyzed and presented this data to different teams.

· Reduced runtime of pipelines by up to **45 minutes** through table redesign, indexing, and **SQL optimizations**.

· Aggregated, processed and stored large-scale data from relational and **NoSQL** databases using **Apache Airflow**, **Apache Spark**, and **AWS** tools such as **S3**, **SQS**, **Dynamo**, and **Redshift**.

Finastra — *Software Developer* — *Sept 2017 - Dec 2017*

· **.NET** developer of CollateralGuard RC which served loan information to tens of thousands of clients in real-time.

· Created internal server diagnostics tool using **WCF** which logged system metrics and sent alerts to DevOps.

PROJECTS AND EXTRACURRICULARS

Brie ⌂ — *Jan 2020 - Present*

· CLI tool to automate the creation, development, and publishing of local and remote git repositories. Written in TypeScript and using **Node.js** libraries Commander, Inquirer, and Axios.

Webpage Summarizer Chrome Extension ↪ ⌂ — *Jan 2019 - Present*

· Generates a Natural Language summary of web pages using Python's **NLTK**'s WordTokenizer and PorterStemmer.

Form Auto-Filler for TunnelBear's Password Manager, *RememBear* — *Jun 2018 - Aug 2018*

· RememBear's form-field detection CRF model trained using **Scikit-learn**'s CRFsuite, SVM, Feature Selection.

· By applying feature analysis, accuracy was increased from 80% to 95%, and model reached an F1-Score of 98%.

UWaterloo Undergraduate Research Assistant *Amazon Alexa Developer* — *May 2019 - Aug 2019*

· Leveraged **Alexa API**, **Node.js**, and **AWS** to create a virtual assistant for email and meeting-scheduling.