

# Shaurya Madan

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## Skills Summary

**Languages:** Python, JavaScript/TypeScript, SQL, Java, C/C++, MATLAB, HTML, CSS

**Tools/Frameworks:** Django, Angular, React, Spring Boot, PostgreSQL, Bootstrap, Android, AWS, Git, STOMP

## Work Experience

### Full Stack Developer | SS&C Technologies | January – April 2020

- Engineered fast end-to-end search functionality that met client reliability standards for the new SS&C KnowledgeBase, using Angular, Spring Boot, and PostgreSQL's tsvector tool
- Developed REST APIs and a UI with Spring Boot and Angular to implement a workflow process for recommendation handling and document editing and creation
- Created several pages critical to the core functionality of the KnowledgeBase with Angular and Angular Material
- Collaborated with team members to architect a database schema for search and the workflow process
- Implemented a client-side authorization framework to ensure the security of confidential and sensitive documents

### Software Developer, Python | Avenza Systems Inc | May – August 2019

- Developed an algorithm that would automatically populate test databases according to business logic, thereby reducing time needed to write unit tests and allowing developers to focus on creating new features
- Created a tool with the GDAL C++ library that would extract GIS metadata from maps and compute values such as area and resolution, which would be used for categorization and filtration of products in the database
- Enhanced a status monitoring program for the Avenza MapStore, helping admins to quickly perform root cause analysis during system outages
- Used Django to implement new features and fix bugs to improve user experience

### Software Developer, Exstream Product | OpenText Corporation | September – December 2018

- Expanded OpenText's pywinauto-based PyFT automation framework, improving the breadth and quality of regression tests that could be run on the Exstream product suite
- Wrote more than 200 new regression tests using PyFT to accelerate the rate at which new builds could be verified
- Improved existing tests to run as much as 5x faster while still maintaining a 100% success rate

## Personal Projects

### Personal Website | Ongoing

- Ongoing project made using React and Bootstrap, hosted at <https://www.shauryamadan.com/>

### Coup Online | Ongoing

- Online version of the card game coup, made with Angular and Spring Boot, and using STOMP to communicate

### Ocra | August 2019

- Created Android app that would scan price tags and find the product at a cheaper price in other stores
- Stored images in Amazon S3, used Lambda to call Textract for OCR, and ran web scrapers on EC2

## Education

- Candidate, Bachelor of Applied Science, Computer Engineering** | University of Waterloo | 2022
- Machine Learning Course** | Stanford University, Coursera | 2020