

# Kevin Lin ( Software Engineer)

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## PROFESSIONAL EXPERIENCE

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### Python Developer

*Depository Trust Clearing Corporation | Jersey City, NJ | Aug 2020 - Present*

**Summary:** DTCC focuses on the financial aspects of risk governance, risk management, and model performance monitoring. I worked on the team with Senior Quantitative Analysts. I was on a team of 5 with 3 Senior Risk Analysts. Our task was to bring back the MPM project that was developed a year ago and provide monthly stress test analysis data. My tasks included writing automatic Python scripts to generate visual reports from Excel for stress testing and backtesting results, configuring AWS resources and initiating Jenkins pipeline build, debugging and updating Flask and Angular code base with new feature requirements, and migrating data from S3 to Snowflake database.

#### Responsibilities

- Produced automation **Python** scripts to generate visual MPM monthly backtesting and stress testing **SQL** data.
- Scraped **S3** bucket using **boto3** and migrated file data to **Snowflake** data house with **pandas** and **snowflake connector**.
- Operated data on **Snowflake** for continuous dataset for modification and testing.
- Designed **scp** script for the team to facilitate transfer of files to DEV and QA servers.
- Exported security risk model data to databases using **SQL Server**, **pyodbc**, **pandas**, and **Excel**.
- Initiated **Jenkins** pipeline build for Bitbucket branches and suppressed code security issues on **Fortify Software Center**.
- Collaborated with **AWS** team to install operating system, software patches, and version upgrades.
- Configured **AWS EC2** server and configured inbound and outbound rules for the security group.
- Raised issue requests on the **Jira** Kanban board and assigned engineers to handle software requests.
- Submitted request for various **AD** groups to gain access to the project environment.
- Utilized **AWS Lambda** to detect **S3** event triggers to transfer data to **SQL Server**.
- Mavenized code applications with **pom.xml** and **RPM**.
- Deployed **Flask RESTful** MPM application and **Angular** application on **Apache HTTPD** on **Red Hat Linux**.

**Technologies Used** – Flask, AWS, Lambda, S3, Apache Maven, HTML, CSS, Angular, JavaScript, Bitbucket, Red Hat Linux, SQL Server, Snowflake, Jira.

### Python Developer

*SummitWorks Technologies | South Plainfield, NJ | Nov 2019 - Present*

**Summary:** Summitworks Technologies focuses on providing IT Services to clients with cost-effective technology solutions. I was on a team of 3 software developers. Our task included revamping the current restaurant ecommerce application developed in Django and Angular with AWS. Our task included developing RESTful API endpoints, unit testing endpoints to validate transferred data, creating bash script to automate Apache configuration, building and deploying final applications on Jenkins pipeline from Bitbucket commits. Other software tools incorporated in the application included SQL Server, MongoDB, and Jira.

#### Responsibilities

- Involved in SDLC including gathering requirements, designing, analyzing, and testing and deployment.
- Developed services in **Django** with **Restful** and **HTTP** with **JWT** and **session** authentication, respectively.
- Extended and updated existing **Django model** attributes featuring **Django ORM** to perform **CRUD** operations.
- Designed **Angular** components with **TypeScript** to subscribe to API using **HttpClient**.
- Designed and created SQL Server tables with pyodbc, SQLAlchemy.
- Designed **Django model-driven form** and **serializers** to send and receive **HTTP** and **RESTful API** requests.
- Designed **animations** with **Angular** animation **trigger** for user interaction with the interface.
- Created Angular components using services to make **HttpClient**
- Implemented Django Authentication by customizing the **Abstract User Class**
- Configured **Apache** and **security groups** on **AWS EC2** instance.
- Set up automatic deployment of applications and configuring **Apache** files using **bash script** files.

**Technologies Used** – Django, AWS, S3 Bucket, HTML, CSS, Angular, JavaScript, Bitbucket, Ubuntu Linux, SQL Server, MongoDB, Jira.

## TECHNICAL SKILLS

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Programming Languages	Python, Java, JavaScript
Backend	Django, Flask
Frontend:	Angular, HTML, CSS, jQuery
Databases	MS SQL, MySQL, MongoDB, Snowflake
Amazon Web Service	AWS, Lambda, EC2, RDS, S3 Bucket, AMI, IAM
Tools	Git BitBucket, Jenkins, FileZilla, Anaconda, Nginx, Apache, MySQL Workbench, Microsoft SQL Server Management Studio, Postman
OS	Ubuntu, Red Hat Linux, Windows, Unix

## PROFESSIONAL SUMMARY

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- **Full Stack Software Engineer** with 2+ years of experience in Software Development.
- Involve in all phases of **Software Development Life Cycle SDLC** such as gathering, analyzing, designing, and deployment.
- Experience with **Data Structures** and **Algorithm** and **OOP (Object Oriented Programming)** fundamentals practices.
- Experience using Python **data analytic** libraries such as **numpy**, **pandas**, **sklearn**, and **matplotlib**.
- Experience in creating dynamic web interfaces with **Django**, **Flask**, **Angular 6+**, **JavaScript** (also **TypeScript**), **Node.js**, **Express.js**, **HTML5**, **CSS**.
- Experience using **BeautifulSoup4** to crawl webpage contents.
- Experience with building authentication for frontend and backend using **JSON Web Token (JWT)**, **sessions**, **cookies**, and **local storage** for **RESTful** applications.
- Good experience creating **Model View Template (MVT)** applications with **Django & Flask**.
- Experience in **Amazon Web Service** or **AWS** in areas such as **EC2**, **S3**, **SNS**, **Lambda**, and **RDS**.
- Experience creating **microservices** to incorporate **RESTful** framework.
- Experience with relational and NoSQL databases such as **MS SQL**, **MySQL**, **MongoDB** and **Snowflake**.
- Experience with **Snowflake Virtual Warehouses**.
- Hands-on experience with **SQL Queries** and **Stored Procedures**.
- Hands-on experience with software unit testing tools using Python **unittest** and **pytest**.
- Good experience using **Object Relational Mapping** using **PyMongo**, **SQLAlchemy**.
- Good experience with **boto3** to utilize various **AWS** resources.
- Experience with writing **bash script** to configure application environments, deploy, and install applications.
- Experience with **CI/CD Continuous Integration and Continuous Delivery** using **Jenkins** with **Bitbucket**.
- Experience configuring **Jenkins** project with build parameters for application deployment.
- Experience in **Agile Methodology (SCRUM)** using **Jira** software management tool.
- Good interpersonal and analytical skills, highly motivated team player, and ability to work independently.

## EDUCATION

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### Bachelor of Science - Computer Science

Stony Brook University

2015 - 2019