

# Kevin Lin

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## PROFESSIONAL EXPERIENCE

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### Depository Trust Clearing Corporation(DTCC)

Aug 2020 - Present

Jersey City, NJ

#### Responsibilities

- Generated stress test report for MPM risk governance entity using **SQL Server, pandas and Excel**.
- Scaled distributed cloud system using AWS **ALB**(Application Load Balancer) with **Auto Scaling Group**.
- Launched **EC2** for **target groups** and **RDS read replicas** for high availability in various **VPC subnets**.
- Configured **AWS EC2** server and configured inbound and outbound rules for the security group.
- Utilized **AWS Lambda** to detect **S3** event triggers for data migration.
- Implemented S3 scraper with **boto3** to migrate data file to **Snowflake** warehouse using **snowflake connector**.
- Created **scp** user interface with **Tkinter** to facilitate file transfer between Desktop and cloud servers.
- Utilized **SQL Server, pyodbc, pandas, and Excel** for risk governance model analysis and report generation.
- Automated **Python** scripts to generate monthly risk governance models backtest and stress test **SQL** data using **pandas**.
- Mavenized and deployed **Python** and **Angular** applications using **Maven pom.xml** and **RPM** packaging.
- Initiated **Jenkins** pipeline build for Git branches and suppressed code security issues with **Fortify Software**.
- Designed **Django** model-driven **form** and **serializers** to send and receive **RESTful API** requests.
- Integrated **Angular** with backend **Python RESTful** service with internal **JWT** using **local storage**.
- Incorporated **Django ORM models** to perform **CRUD** database operations .
- Served **Flask** and **Angular** application on **Apache httpd** on **Red Hat**.
- Utilized **Jinja** to generate dynamic web contents.
- Utilized **Jira** board to assign engineers to handle software requests.

**Technologies Used** – Flask, AWS, S3, Lambda, Maven, HTML, CSS, Angular, SQL Server, Snowflake, Jenkins.

### SummitWorks Technologies

Nov 2019 - Jul 2020

South Plainfield, NJ

#### Responsibilities

- Involved in all phases of SDLC including gathering requirements, designing, analyzing, testing, development, implementation, and deployment of applications.
- Tested **HTTP** request protocols using **Postman** to validate response objects and existences of **API** resources.
- Utilized **JWT Authentication** access and refresh tokens to authorize user access to **RESTful API** endpoints.
- Utilized **session** and **local storage** to store data in browsers.
- Implemented **decorators** using wrapper functions to ensure that only authorized users have access.
- Updated **Angular components** to create new angular **services** to make http requests to backend **RESTful API**.
- Implemented **boto3** script to store static content to **S3**.
- Configured **NGINX** for **Angular** deployment and **Apache2** for **Django** deployment using **bash script**.
- Wrote dynamic **HTML** web pages using **Django Template Language Jinja**.
- Unit test module using **unittest** on **CRUD** operations and HTTP endpoints.
- Set up automatic deployment of applications and configuring **Apache** files using **bash script** files.

**Technologies Used** – Django, AWS EC2, Apache, HTML, CSS, MongoDB, SQL Server, Jenkins.

## TECHNICAL SKILLS

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Languages	Python, Java
Backend	Django, Flask
Frontend	HTML, CSS, jQuery, JavaScript, Angular
Databases	MS SQL, Snowflake, MongoDB
Cloud	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**, **JavaScript**, **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.
- Proficient in **Microsoft Word**, **Excel**, **Skype** and **Outlook**.
- Good interpersonal and analytical skills, highly motivated team player, and ability to work independently.

## EDUCATION

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### Stony Brook University

Bachelor of Science - Computer Science

Aug 2015 - May 2019