Timothy Shee

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SKILLS

Languages	Java, Python, JS/TS (Node.js), Bash, Batch/Powershell
Technologies	Git, Spring Boot, Gradle/Maven, SQL (Postgres), REST/GraphQL, Kubernetes, Docker, Linux (Ubuntu, Arch), React/Next.js, HTML5, CSS3/SASS, PWAs, MUIv5, AWS

EXPERIENCE

Rewst LLC — Jun 2022 - *Present*
Software Engineer II — *US Remote*

- Developed features and fixed bugs in monorepo of Next.js frontend, Apollo GraphQL server, and Faust Python engine
  - * SQL Integration for clients to load data into Rewst via queries to their own database (Postgres, MSSQL, MySQL)
  - * Liongard Integration to access client Liongard resources via REST by managing API keys and paginating resources
  - * Codepen-like UI for Jinja Live Editor to test Jinja code on customer context data while viewing real-time results
  - * Cron Job to prune results for data Compliance via SQL query based on customizable multi-tenant org settings
  - * Pendo dashboard to track customer product usage by sending Pendo track events from an Apollo Datasource
- Developed Grafana dashboard to monitor real-time workflow usage and exported CSV to create report for investors
- Deployed features to AWS EKS Kubernetes after testing code in local Minikube environment created with Helm Charts
- Improved coding standards using Ruff Linting for Python and ESLint/Prettier for JS via Pre Commit Hooks & CircleCI
- Collaborated with team using GitHub, Shortcut (like Jira), Slack, GitBooks, and Gather

Dell EMC — May 2021 - Jun 2022
Software Engineer I — *US Remote*

- Migrated time series similarity from R microservice to Python common library for license compliance
  - * Integrated common library into existing Python microservices as new dependency while deprecating R microservice
  - * Compared Python vs R results in Pandas by running algorithm on 1000 systems of sanitized production data
  - * Built Kibana dashboard to summarize time series similarity results by saving Pandas dataframe to Elasticsearch
- Converted new-features-plugin from AngularJS to Angular 12 using TypeScript by writing a masthead service to pass loaded assets to header-plugin and updating the NewFeaturesDialog component in proprietary gui-angular-library
- Wrote tests for new analytics features in E2E integration test framework built with Java, Maven, and Selenium
- Collaborated with team using GitHub, Jira, Slack, Confluence, and Agile

Creaticles, Inc. — Jan 2022
Software Engineer (Contract) — *US Remote*

- Developed Web3 voting platform using Next.js, MongoDB, and smart contracts with Solidity, Hardhat.js, and Ethers.js
- Deployed DApp to Vercel, smart contract to Ropsten Test Network, and loaded data from MongoDB Atlas

RSA Security — May - Aug 2019, Jul - Aug 2020
Software Engineer (Intern) — *Bedford, MA*

- Built CD Jenkins pipeline that reduced content deployment from 2 weeks to 2 hours by writing Python scripts to poll new content, aggregate Nosetest XML reports, and deploy modified threat content to PROD for customers
- Developed Python test suite to add coverage for 31 manually tested threat content rules and ran it in daily Jenkins build

Avid Technologies — Jul - Aug 2018
Software Engineer (Intern) — *Burlington, MA*

- Wrote Powershell scripts to reduce source code from 20 GB to 1.9 GB by moving binaries to internal Nexus server and generating GAV Gradle properties files to download the binaries at runtime to simplify AccuRev to GitLab migration

Projects

Multilingual Novel NLP | *Python, Jupyter, NLTK, Jieba, Nagisa, Sentence Piece* — Jun 2023 - *Present*

- Analyzed EN, ZH, and JA novels using Word Frequency, Collocation, Concordance, and Sentiment Analysis
- Generated short stories in EN and translated to ZH/JA to compare context-dependent translation drawbacks

Education

University of Massachusetts Amherst — May 2021
Bachelor's Degree in Computer Science — GPA: *3.6 / 4.0*