LUCIE YE

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WORK EXPERIENCE

JUNIOR JAVA SOFTWARE ENGINEER – *Adesso SE, Cologne, Germany*   Aug 2022 – Nov 2022
- Reduced cost per product release: automated integration tests with **Spring Boot** project with team of 3.
- Tested 6 modules on 3 **Docker** images with **JBoss** and **PostgreSQL**, completing 120 hours testing over 3 weeks, with each image undergoing 40 test scenarios and achieving 99.5% pass rate for all critical functionalities.
- Troubleshooted 2 high-priority bugs in 3 days in **Angular.JS**, improving login success from 70% to 98%.

PROJECTS

JAVA FULL-STACK APPLICATION – *ESEO Graduate School, Angers, France*   Feb 2023 – Jun 2023
- Led agile team of 7 as Product Owner for 3 Sprints, delivering **Spring Boot** app 25% ahead of 12-week schedule.
- Architected and implemented **RESTful APIs** to fulfill 86 user stories, achieving all backend functionalities.
- Coded 20 **Junit** tests and 10 end-to-end **Selenium** tests, maintaining 100% code quality on **SonarQube**.

REACT WEBSITE – *Illinois Tech, Chicago, IL*   Dec 2023
- Built dynamic website with 7 components, designed on **Figma** and deployed on **Vercel**, 25% ahead schedule.
- Implemented cross-browser compatibility, achieving a 96% Lighthouse accessibility score.
- Ranked top 1 UI design in the front-end course finals.

PYTHON FLASK APPLICATION – *Illinois Tech, Chicago, IL*   Nov 2023 – Dec 2023
- Developed PDF summarizer using Python **Flask** & ChatGPT **OpenAI Turbo 3.5 API**, enabling users to process 1 large PDF file at a time, reducing processing time compared to manual methods.
- Completed implementation 25% ahead of schedule, including testing with all 4 tests passing successfully.
- Integrated error handling & logging mechanisms, improving debugging efficiency by 50%.

SQL DATABASE DESIGN – *ESEO Graduate School, Angers, France*   Mar 2023 – Apr 2023
- Designed 5 **SQL** tables to handle all functional requirements.
- Optimized queries by using 7 SQL views, 4 constraints, and 6 triggers to ensure database integrity.
- Applied 1NF, 2NF, and 3NF normalization standards to optimize data structure, removing redundancy by 25%.

SKILLS

- **Programming Languages** – Java | Python | C | JavaScript (ES6) | TypeScript | HTML5 | CSS3
- **Databases & APIs** – SQL | Oracle database | MySQL JDBC | JPA Hibernate | REST APIs | GraphQL
- **Web** – React | Next.JS | Node.JS | Angular.JS | Express.JS | TailwindCSS | Bootstrap
- **DevOps** – Azure Cloud | Azure DevOps | Git | CI/CD | Docker | Jenkins | SonarQube | GitHub| BitBucket
- **Testing** – JUnit | TestNG | Selenium | Unit testing | Integration testing | Validation test cases
- **Others** – Agile | Scrum | Jira | IntelliJ | Eclipse IDE | VS Code | Object Oriented design | Code Review

EDUCATION

Illinois Institute of Technology, Chicago, IL   Aug 2023 – May 2024
Master of Information Technology and Management, Web Design & Application Development | GPA **4.0**/4.0
Coursework: *Full-Stack Development, Front-end Development, Back-end Development, Web API Integrations, Web Systems Architecture, Software Development Life Cycle (SLDC),*
Award: **Outstanding Student** in IT & Mgmt, Web Design & Application Development (2023-2024)

ESEO (École Supérieure de l'Électronique de l'Ouest), Angers, France   Sept 2019 – June 2023
Master of Computer Science, Software Engineering & Database Management | GPA **3.7**/4.0
Coursework: *Object-Oriented Software, Java Software Development, Software Testing, Relational Databases, Java RESTful API, Continuous Integration & Deployment pipelines, Web Development, Agile SCRUM*