

# Julien Look

## Software Engineer

LinkedIn: <https://www.linkedin.com/in/julien-look/> | Github: <https://github.com/juice1000>

---

### SKILLS

---

#### Data Science & Machine Learning

Machine Learning (LLM, CNN, Classification, Time Series, Regression, Reinforcement Learning);  
Data Engineering (Big Data Mining, ETL);  
Data Quality (evidently.ai, deepeval)  
Libraries (Tensorflow, Keras, Pytorch, Pandas, Scikit-Learn, Tidyverse, OpenCV, Apache Spark, langchain, chroma)

#### Frontend Development

SASS; Web Scraping (Selenium, XML, beautiful soup);  
GraphQL; JQuery;  
Websockets (Socket.io); E2E Testing (Cypress);  
UI kits (Tailwind, Bootstrap, Material UI, headlessUI, CoreUI); Module Bundler (Webpack, Vite); RxJs; REST;  
Server-Side-Rendering; Caching

#### Programming Languages

Web (JavaScript, React, Remix, Angular, HTML, CSS);  
Backend (Node.js, TypeScript, Bash);  
Data Science (Python, R, SQL); Mobile (React Native)

#### Software Architecture/ Deployment

Monorepo (NX); Microservices; Version Control (Git)  
Cloud Services (Firebase, Microsoft Azure, AWS);  
CI/CD (Github Actions, Gitlab CI/CD; Expo, Docker,  
MLOps (Amazon Sagemaker, mlflow, DVC, deployment),  
Workflow Management (Airflow)

#### Backend Development

Server Framework (Express, Restify, Flask);  
Serverless Development; Threading; Multiprocessing;  
Database Management (MongoDB, ORMs, dbt, Prisma, Redis, Big Query); Unit/ Integration/ API Testing (Jest, Python unittest); Authentication (JWT, OAuth)

#### Languages

German (Native Proficiency)  
English (Full Professional Proficiency)  
Japanese (Professional Working Proficiency)

---

### EXPERIENCE

---

#### Adjunct Lecturer in MLOps, Nobleprog, Freelance

- Concepted and taught lessons in MLOps (Machine Learning Operations), covering automated data wrangling, machine learning lifecycles, monitoring, and orchestration in production environments
- Developed hands-on labs with real-world case studies, guiding students through opportunities and pain points in MLOps, covering a range of modern tools

Jan-Feb,  
2025  
remote

#### Lead Frontend Engineer, R-Cycle, Freelance

- Spearheading development of customer dashboard to monitor plastic production cycle across multiple manufacturers, facilitating industries' compliance with government recycling mandates
- Directed architectural improvements, including Workspace refactoring for optimized development
- Engineered Frontend components utilizing React, SASS, and CoreUI for a responsive user interface
- Implemented a comprehensive testing strategy to ensure stability in previously untested application
- Transformed database and file management using GCP, prompting users to customize the app UI

Jan, 2024  
remote

#### Software Engineer, Cinoware, Freelance

- Build prototypes and automated testing software to validate a product used for telecommunication
- Developed a remote robot operation application, featuring a React.js console for command issuance
- Implemented Backend in Python and Flask for machine control and collecting operation data
- Implemented navigation tracking through image detection using OpenCV
- Orchestrated pipeline for algorithm performance tracking using mlflow and scikit-learn
- Developed a Selenium Grid testing suite, analysed Allure reports for performance tracking

Jan-Dec,  
2024  
remote

#### Adjunct Lecturer in Data Analytics, Data Smartpoint, Freelance

- Taught Data Analytics, Machine Learning, Web Scraping and API development to groups of ~15 students, including conceptualization of study material and final projects

Jun-Oct,  
2024,  
remote

|   |                                    |
|---|------------------------------------|
| <b>Lead Fullstack Engineer</b> , <i>Full-Circle Family, Freelance</i> <ul style="list-style-type: none"> <li>Spearheaded the development of an AI parent advisor using OpenAI's GPT models and WhatsApp API, offering affordable child care support</li> <li>Led the strategic implementation of LLM models for AI-chatbot product development, supervising domain-specific training and optimizations</li> <li>Architected and scaled applications using microservices, NX Monorepo, and AWS, improving product flexibility and resilience</li> <li>Designed a TypeScript and React.js-based Analysis Dashboard to track user behavior, informing data-driven product strategy adjustments</li> <li>Leveraged a broad spectrum of AWS tools (including Identity Management, Lambda, API Gateway, DynamoDB, ACM, Route 53, Amplify, Cognito, Elastic Beanstalk, EC2) for robust cloud infrastructure</li> </ul>   | Nov, 2023 - Mar, 2024<br>remote    |
| <b>Lead Fullstack Engineer</b> , <i>Cybercrush, Freelance</i> <ul style="list-style-type: none"> <li>Engineered a Shopify Storefront utilizing Remix.js (Hydrogen) and Shopify APIs with GraphQL for a seamless e-commerce experience</li> <li>Led and managed a team of 4 developers, overseeing the delivery of design and technical requirements in collaboration with C-level executives</li> <li>Provided administrative support on the Shopify platform, including product release strategy consultation and implementation of a CI/CD pipeline with GitHub Actions</li> </ul>  | Dec, 2023 - Jan, 2024<br>remote    |
| <b>Frontend Engineer</b> , <i>Freelance</i> <ul style="list-style-type: none"> <li>Developed a time management tool for SME using React, Tailwind and headlessUI</li> <li>Utilized Firebase for authentication and database management, used Cloud Functions for Serverless Architecture</li> <li>Set up CI/CD pipeline in Gitlab for faster and more reliable releases</li> </ul>  | Oct, 2023<br>remote                |
| <b>Fullstack Engineer</b> , <i>kunveno, Freelance</i> <ul style="list-style-type: none"> <li>Developed and integrated a Full-Stack app into Microsoft Teams as a Message Extension using, expanding client's user potential to 270 million worldwide, capturing a substantial market share</li> <li>Architected the Microsoft Azure environment as the lead developer, managed CI/CD pipeline and release of multiple stages, collaborated with CTO for peer-reviews</li> <li>Customized backend in Node.js and TypeScript to utilize Microsoft Bot framework requests</li> <li>Built UI from Figma template using vanilla JavaScript</li> <li>Implemented organization-wide authentication via Microsoft Azure's delegated OAuth protocol and Azure AD, overcoming complexities of using the Microsoft Azure through careful documentation review and proof-of-concept testing</li> <li>Overcame infrastructure challenges by optimizing file structure and configuration files for extension, ensuring seamless app functionality and data access within the extension</li> </ul> | Jun - Aug, 2023<br>remote          |
| <b>Fullstack Engineer</b> , <i>Listify, Personal Project</i> <ul style="list-style-type: none"> <li>Developed a Full-Stack App that downloads tracks of Spotify playlists on Spotify, enabling DJs to create DJ sets faster and save on cost</li> <li>Used Python with Flask and FastAPI for App architecture, Celery and Redis for asynchronous tasks</li> <li>Used Selenium and BeautifulSoup for dynamic Web Scraping of data</li> </ul>   | Jan, 2023<br>Berlin, Germany       |
| <b>Data Scientist</b> , <i>Expresssteuer GmbH</i> <ul style="list-style-type: none"> <li>Managed ETL processes &amp; rebuilt Data Warehouse, reduced original database costs by more than 90%</li> <li>Implemented Microservices coupled with Cloud Services using Firebase in Angular and Typescript</li> <li>Built solutions using AI tools to cut labor cost by about 90%</li> <li>Created analytics tools for data driven workflows</li> </ul>  | May, 2021 - Dez, 2022<br>remote    |
| <b>Data Science Research Assistant</b> , <i>Technical University Berlin</i> <ul style="list-style-type: none"> <li>Conducted Machine Learning research in Quality Science, used Python and R for implementation</li> <li>Contributed to paper publications, created interactive content for congresses (e.g. VDI congress)</li> </ul>   | Sep, 2020 - Sep, 2021<br>remote    |
| <b>Machine Learning Engineer</b> , <i>Cyanite, Freelance</i> <ul style="list-style-type: none"> <li>Modeled several Machine Learning prototypes to classify music eras with Python and Tensorflow</li> <li>Generated and managed audio data library with pandas, created spectrograms from audio</li> <li>Implemented vanilla Machine Learning (MLP), Image Classification (CNN) and Time Series Classification (Recurrent CNN) models to analyze audio data</li> <li>Programatically tuned hyperparameters during model evaluation step to find optimum</li> </ul>   | Jun, 2020 - Nov, 2020<br>remote    |
| <b>Operating System Engineer</b> , <i>Bosch, Internship</i> <ul style="list-style-type: none"> <li>Linux OS Development for Bosch's Linux distribution (Bash and Python)</li> <li>Implemented verification step for untrusted software during OS installation</li> </ul>  | Sep, 2019 - Mar, 2020<br>Singapore |

---

## EDUCATION

---

### **Course Program - Software Engineering Immersive, Codeworks**

Feb - May, 2023  
Berlin, Germany

- Advanced Javascript paradigms, Backend frameworks, Frontend frameworks
- Developed 3 senior projects from ideation to release, gaining advanced experience in Software Architecture
- Developed a Mobile Music Streaming App using React Native, Expo and Websockets
- Developed a customizable AI-powered automation tool using Node.js and React, spearheaded architecture setup, Cloud Infrastructure, Database Management, Websockets
- Developed a live voting App for Spotify playlists using Node.js, Angular and TypeScript

### **Bachelor of Science - Computational Engineering Science, Technical University Berlin**

Apr, 2018 -  
Aug, 2021  
Berlin, Germany

- Grade: 2.1, (equivalent to a GPA of 3.1 or a score of 86%)
- Bachelor Thesis on Advantage Actor-Critic Reinforcement Learning, grade: 1.3
- Studied Computational Mathematics using Python (1 year)
- Participated for several semesters in projects using Machine Learning with Python