

Julien Look

Fullstack Engineer

[Email](#) | [LinkedIn](#) | [Github](#)

SKILLS

Programming Languages

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

Frontend Development

SASS; Web Scraping (Selenium, XML); 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

Data Science & Machine Learning

Machine Learning (LLM, CNN, Time Series Classification, Regression Analysis, Reinforcement Learning);
Data Engineering (Big Data Mining, ETL Processing);
Libraries (Tensorflow, Keras, Pytorch, Pandas, Scikit-Learn, Tidyverse, OpenCV)

Software Architecture/ Deployment

Monorepo (NX); Microservices;
Cloud Services (Firebase, Microsoft Azure, AWS);
Version Control (Github, Gitlab, Bitbucket);
CI/CD (Docker, Github Actions, Gitlab CI/CD; Expo

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 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,
Berlin

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-Oct,
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, evaluated algorithm performance against quality benchmarks with Scikit-Learn
- Developed a Selenium Grid testing suite, analyzed Allure reports for performance tracking

Jan-Oct,
2024
remote

Fullstack Data Scientist, *Full-Circle Family, Freelance*

- Developed a mobile AI parent advisor, offering quick and affordable child care support
- Supervised the strategic implementation of LLM models (OpenAI's GPT) for the chatbot, conducted domain-specific training, benchmarking and optimizations
- Chained all applications in single monorepo with microservices, coupled with Cloud Development using AWS tools (including Lambda functions, API Gateway, DynamoDB, Amplify, Cognito, EC2)

Nov, 2023 -
Mar, 2024
remote

Fullstack Engineer, *Cybercrush, Freelance*

- Engineered a custom Shopify Storefront using Remix.js and Shopify APIs with GraphQL
- Managed a team of 4 developers, overseeing the delivery of design and technical requirements

Dec, 2023 -
Jan, 2024
remote

Oct - Dec,

Data Engineer , <i>co-dex, Freelance</i> <ul style="list-style-type: none"> Engineered data transformation scripts for the energy sector using R Wrote unit and integration tests to ensure data quality within transformation steps 	2023, remote
Frontend Engineer , <i>co-dex, Freelance</i> <ul style="list-style-type: none"> Developed and released time management tool using React, Tailwind and headlessUI Utilized Firebase for serverless architecture, architected CI/CD pipeline in Gitlab 	Oct, 2023 remote
Fullstack Engineer , <i>kunveno, Freelance</i> <ul style="list-style-type: none"> Developed and integrated a Full-Stack app into Microsoft Teams as a Message Extension, expanding client's user potential to global market Architected Microsoft Azure infrastructure, built CI/CD pipeline for release of multiple environments Managed request handling from Message Extension in Backend using Node.js and TypeScript Implemented organization-wide authentication via Azure's delegated OAuth protocol and Azure AD 	Jun - Aug, 2023 remote
Fullstack Engineer , <i>Listify, Personal Project</i> <ul style="list-style-type: none"> Developed a Full-Stack App to read track playlist from of Spotify and downloading it via another provider of choice, enabling DJs to create DJ sets faster, used Python with Flask and Selenium 	Jan, 2023 Berlin, Germany
Data Scientist , <i>Expresssteuer GmbH</i> <ul style="list-style-type: none"> Managed ETL processes & rebuilt the Cloud Data Warehouse using Google Analytics, Big Query, Firebase and dbt, reducing original database costs by more than 90% Implemented Microservices coupled with Cloud Services using Firebase in Angular and Typescript Built custom AI solutions for internal processes to cut cost for operations by about 70%, including: <ul style="list-style-type: none"> Developed screening and extraction tool for several legal documents using Google Vertex AI Built chatbot with access to customer data, automating responses to individual case inquiries Designed analytics dashboards, empowering finance and operations teams with data-driven insights 	May, 2021 - Dez, 2022 remote
Data Science Research Assistant , <i>Technical University Berlin</i> <ul style="list-style-type: none"> Conducted Machine Learning research in Quality Science, used Python and R for implementation Contributed to paper publications, created interactive content for congresses (e.g. VDI congress) 	Sep, 2020 - Sep, 2021 remote
Machine Learning Engineer , <i>Cyanite, Freelance</i> <ul style="list-style-type: none"> Modeled several Machine Learning prototypes to classify music eras with Python and Tensorflow Generated and managed audio data library with pandas, created spectrograms from audio Implemented vanilla Machine Learning (MLP), Image Classification (CNN) and Time Series Classification (Recurrent CNN) models to analyze audio data Programatically tuned hyperparameters during model evaluation step to find optimum 	Jun, 2020 - Nov, 2020 remote
Operating System Engineer , <i>Bosch, Internship</i> <ul style="list-style-type: none"> Developed Debian packages for Bosch's Linux distribution in Bash and Python Implemented verification step for untrusted software during OS installation 	Sep, 2019 - Mar, 2020 Singapore

EDUCATION

Software Engineering Immersive , <i>Codeworks</i> <ul style="list-style-type: none"> Learned advanced Javascript paradigms, Backend frameworks, Frontend frameworks Developed 3 senior projects from ideation to release, gaining advanced experience in Software Architecture: <ul style="list-style-type: none"> 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 and Database Management Developed a live voting App for Spotify playlists using Node.js, Angular and TypeScript 	Feb - May, 2023 Berlin, Germany
B.Sc. Computational Engineering Science , <i>Technical University Berlin</i> <ul style="list-style-type: none"> Grade: 2.1, (equivalent to a GPA of 3.1 or a score of 86%) Bachelor Thesis on implementing and benchmarking state-of-the-art Reinforcement Learning algorithms, grade: 1.3 Studied Computational Mathematics for two years with Python & Matlab in various lectures Participated in multiple semesters of Machine Learning projects using Python Studied Engineering Data Analytics with R, later served as a course tutor Studied low-level programming focused on Operating Systems and Machine Programming 	Apr, 2018 - Aug, 2021 Berlin, Germany