Niklas Hallstein

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Professional Experience

FileScience — Kingston, NY
Engineer I — 2024 – Present

- Led a small team in the development and maintenance of the front-end for a B2B SaaS backup and recovery platform.
- Built microservices and backend libraries, integrating with APIs such as Microsoft Graph and NetDocuments.
- Developed and maintained unit and end-to-end tests using Pytest, Cypress, Playwright, and Selenium.
- Managed infrastructure deployment pipelines using AWS CloudFormation and CodeDeploy.
- Worked primarily with Python (FastAPI, boto3, SQLAlchemy, AWS CDK) and TypeScript (Angular, RxJS, Taiga UI).

Cyber Guardian Consulting Group — Kingston, NY
Engineer I — 2022 – 2024

- Developed and supported client-focused applications using Python and AWS within a small agile team.
- Collaborated directly with MSP clients to define requirements, troubleshoot issues, and deliver high-quality solutions.
- Designed and implemented secure OAuth2 authentication flows for client applications.
- Built integrations with third-party APIs using SOAP, REST, and GraphQL.
- Utilized AWS services (EC2, VPC, Lambda, DynamoDB, S3) alongside Python, C#, and PowerShell.

Projects

Stable Pathmaps ↗

Developed a procedural map generation tool using a text-to-image Stable Diffusion model with a LoRA trained on D&D maps. The system parses context objects into prompts, generating unique 2D game environments with automated post-processing. (2022)

Dialogue Creation Kit ↗

Created a user-friendly graph interface for designing complex dialogue systems. This tool employs a digraph structure to build and export dialogue trees for integration with game engines like Unity and Godot, and languages like TypeScript. (2023)

Education

SUNY New Paltz — New Paltz, NY
Bachelor of Science in Computer Science — 2021 - 2024

Rensselaer Polytechnic Institute — Troy, NY
Computer Science — 2019 - 2020

Technical Skills

- **Programming Languages**: Python, TypeScript, C#, Java, C, C++, Go
- **Web Technologies**: Angular.js, React.js, HTML, CSS
- **Frameworks & Libraries**: FastAPI, boto3, sqlalchemy, rxjs, .NET
- **Cloud & DevOps**: AWS, Docker, GitHub Actions
- **Authentication & Security**: OAuth2, OpenID Connect, Firebase
- **Scripting**: Powershell, Bash, Lua