Niklas Hallstein

✉ niklashallstein1798@gmail.com ◇ 📞 (845)-750-5522

 nhall0 ◇ niklas-hallstein ◇ 🌐 niklashallstein.dev

Professional Experience

FileScience   Kingston, NY
Software Engineer   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
Junior Software Engineer   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