

# Maximilian Petretta

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## Experience

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### GE Healthcare | Staff Software Engineer

Detroit, MI

AWS, Azure, Terraform, Terragrunt, GitHub Actions

Feb 2022 - Present

- Led elements of critical corporate spin-off preparations, taking on additional responsibilities in overseeing team's deliverables and 6-month direction
- Designed transition plan to full GitOps infrastructure model, accounting for existing cloud resources and ongoing migrations, to ensure uninterrupted service for 100+ applications
- Onboarded new engineers to team, and mentored several junior developers new to cloud technologies

### GE Healthcare | Senior Software Engineer

Milwaukee, WI

Azure, Terraform, Terragrunt, Docker, DevOps Pipelines

Aug 2020 - Feb 2022

- Designed and implemented an infrastructure-as-code templating system, serving as the foundation to all Azure hosted applications at GE Healthcare, decreasing development time from weeks to days
- Fully automated the resource deployment process for new applications, eliminating manual efforts and reducing turnaround times by 75%, delivering fully configurable CI/CD pipelines
- Directed operations team in migration efforts, moving over 80 internal applications to the cloud
- Worked in a team of 8+ engineers building core modules pertaining to Azure containers instances, app services, virtual machines, application gateways, databases, and virtual networks

### GE Healthcare | Digital Technology Leadership Program

Atlanta, GA

AWS, Python, Java, Spring Boot, React, SQL Server

Jun 2018 - Aug 2020

- GE's premier talent development program focusing on technical skills and project management
- Developed API for dynamically starting EC2 instances to process large-scale compute jobs, involving millions of service technician records and machine sensor data
- Worked with international teams in 4 countries to roll out biometric authentication for factory workers, presented findings to business executive team on employee adoption, effectiveness, and feedback
- Specialized in cloud infrastructure, including AWS Solutions Architect certifications
- Completed 4 rotations including full stack development, data analysis, and product deployments

## Projects

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**twitt3r.xyz** Solidity, Hardhat, Ethers.js, wagmi, RainbowKit, React

Decentralized Twitter clone on the Ethereum blockchain, utilizing a custom smart contract for message storage and ENS lookups for profile information, deployed to Goerli and Ropsten

## Education

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### University of Michigan

Dearborn, MI

B.S. in Computer Science, GPA: 3.53

Sep 2013 - Apr 2018

Senior Design Competition Award:

Most Innovative Project - Trip Out Android Application

## Skills

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**Languages:** Solidity, TypeScript, Python, Terraform, Java, HTML, CSS, JavaScript, SQL

**Technologies:** Ethereum, Hardhat, AWS, Azure, React, Next.js, Node.js, Tailwind, Docker, DevOps, Linux, git