Maximilian Petretta

US, EU Citizenship
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Experience

GE Healthcare | Staff Software Engineer — Detroit, MI
Python, Terraform, Kubernetes, Docker, AWS, Azure — Feb 2022 - Present

- Led critical corporate spin-off initiatives, taking on additional responsibilities in overseeing team's future deliverables and technical direction, providing weekly updates to leadership
- Designed full GitOps infrastructure model based on Kubernetes, accounting for existing resources and ongoing migrations, to provide highly available service for over 120 applications
- Conducted architecture and code reviews for a team of over 10 engineers, onboarding new members
- Managed two junior developers, providing guidance and mentorship in cloud technologies

GE Healthcare | Senior Software Engineer — Milwaukee, WI
TypeScript, Node.js, Terraform, AWS, PostgreSQL — Aug 2020 – Feb 2022

- Architected backend APIs for dynamically running large-scale ML compute jobs, involving millions of service technician records and machine sensor data, and notifying users once complete
- Designed and implemented an infrastructure-as-code template framework, serving as the foundation to all cloud-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
- Built multiple REST services to manage existing cloud resources, including DNS and IP address blocks

GE Healthcare | Digital Technology Leadership Program — Atlanta, GA
React, Java, Spring Boot, AWS, SQL Server — Jun 2018 - Aug 2020

- GE's premier talent development program focusing on technical skills and project management
- Implemented new core data table views with fully customizable filters and sorting, collaborating with UX team on interface design, and conducted customer feedback sessions
- Developed integration between CRM and HR database system, including unit and performance testing
- Coordinated 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
- Worked in full-stack capacity on suite of factory web apps, used globally by thousands of technicians

Projects

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

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

University of Michigan — Dearborn, MI
B.S. in Computer Science, Magna Cum Laude — Sep 2013 - Apr 2018

Skills

Languages:	TypeScript, Solidity, Python, Terraform, Java, HTML, CSS, JavaScript, GraphQL, SQL
Technologies:	Ethereum, Hardhat, React, Next.js, Node.js, AWS, Azure, Apollo, Tailwind, Docker, DevOps, Linux, git