Maximilian Petretta

hello@maxpetretta.com
github.com/maxpetretta
linkedin.com/in/maxpetretta

Experience

GE Healthcare | Software Engineer
Milwaukee, WI
Azure, Terraform, Terragrunt, Docker, DevOps Pipelines
Aug 2020 - Present

- 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

GE Digital | Software Developer (Co-op)
Detroit, MI
Python, JavaScript, Node.js, Express, PostgreSQL
May 2016 - Sep 2017

- Led team for Alexa voice integration MVP for monitoring agile sprints/task events from planning tool
- Built backend REST API for interfacing between personnel management app and HR databases
- Conducted 7 education sessions for onboarding new hires on internal technologies and processes
- Took initiative in proposing, organizing, and leading site-wide engagement events with 100+ participants

Urban Science | Full Stack Web Developer (Co-op)
Detroit, MI
C#, JavaScript, jQuery, SQL Server
Dec 2015 - Apr 2016

- Developed new features on ASP.NET web application in an accelerated environment
- Enhanced user experience and reduced page reload frequency significantly (30% improvement)
- Implemented asynchronous actions throughout the site, utilizing ASP's update objects and AJAX

Education

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

Languages: Python, Java, Swift, Terraform, HTML, CSS, JavaScript, SQL
Technologies: AWS, Azure, DevOps, Docker, React, Next.js, Node.js, Tailwind, Linux, git