Maximilian Petretta

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Experience

GE Healthcare | Software Engineer (Cloud)　　AUG 2020 – PRESENT

- Designed and implemented an infrastructure-as-code templating system, serving as the foundation to all Azure hosted applications at GE Healthcare, reducing development time from weeks to days
- Fully automated the resource deployment process for new applications, removing manual efforts and reducing turnaround times by 75%, using Terraform, Terragrunt, and Azure DevOps CI/CD
- 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　　JUN 2018 – AUG 2020

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

GE Digital | Software Developer (Co-op)　　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 interacting with PostgreSQL database, programmed in Node.js and Express
- Conducted 6+ education sessions for coworkers on internal technologies (Predix), Cloud Foundry, and Git
- Took initiative in proposing, organizing, and leading site-wide engagement events with 100+ participants

Urban Science | Full Stack Web Developer (Co-op)　　DEC 2015 – APR 2016

- Developed new features on ASP.NET web application using a combination of C#, JavaScript, jQuery, and SQL
- Implemented asynchronous actions throughout the site, utilizing ASP's update objects and AJAX
- Enhanced user experience and reduced page reload frequency significantly (30% improvement)

Education

University of Michigan | B.S. Computer Science　　SEP 2013 – APR 2018

GPA: 3.53 / 4.00　　　　　　　　　　　　　Dearborn, MI
Dean's List Recipient (Fall 2014 – Winter 2018)　　College of Engineering & Computer Science

Senior Design Competition: Most Innovative Project Award - 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