**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**