Matthias Denu

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CERTIFICATIONS
Associate AWS Certified Solutions Architect

SKILLS
Azure, Bash, Docker, Go, GitHub, Java, Jenkins, Kubernetes, Python, SonarQube

EDUCATION
Master of Science in Computer Science
Northeastern University 2020

Bachelor of Science in Electrical Engineering
Georgia Institute of Technology 2015

EXPERIENCE
Software Engineer, Adobe, Nov 2020 – Present
- Acted as one of the primary maintainers of our build automation tool, written in Python
- Refactored deployments for containerized Adobe Acrobat Sign to take advantage of AWS IAM roles for service accounts and Azure workload identities
- Managed RBAC and NACL rules for cloud resources used by our organization
- Refactored a tool written in Go to resolve dependencies for, validate, and transfer 50k+ artifacts between cloud storage resources in regions around the world, across different CSPs
- Integrated code quality metrics into the Jenkins Pipeline for Adobe Acrobat Sign; a containerized application with 800k+ lines of code and over 100 contributors
- Participated in a successful FedRAMP certification effort by refactoring Java code to use FIPS approved algorithms when encrypting sensitive information

Graduate Teaching Assistant, Northeastern University, Sep 2017 – May 2019, Boston, MA
- Taught students object-oriented and functional programming paradigms in Java
- Hosted office hours to answer questions and reinforce concepts from lecture
- Oversaw two lab sections and managed the tutors for those sections
- Resolved conflicts between students working together in groups
- Graded exams and provided feedback to students

Software Engineering Intern, Adobe, May 2018 – November 2018, Newton, MA
- Completed a customer clustering project for the Document Cloud data science team
- Worked with Apache Hadoop platform and Amazon Web Services
- Employed feature engineering and dimensionality reduction techniques
- Presented findings to product managers and the marketing team
- Documented work and tracked progress in GitHub and Jira

Associate Software Engineer, Ensco Avionics, Sep 2015 – Nov 2016, Endicott, NY
- Tested avionics software, written in Ada and C, against formal requirements
- Tested VHDL code for FPGA prototypes against formal requirements
- Performed code reviews of source code and peer unit tests
- Carried out testing using Excel, Graphics ModelSim, and Xlinx ISE Design Suite
- Organized formal requirements and artifacts with IBM DOORS and Serena Dimensions