

# EMILY BLACK

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**SKILLS & ABILITIES** Java, Python, C++, SQL, Git, JavaScript, NoSQL, Node.js, C, C#, HTML, CSS, Cloud, Microservices

**EXPERIENCE** Software Engineer, Microsoft

*03/2019 – Present*

- Working under the Core Commerce Fundamentals team to develop a telemetry and monitoring micro services application for the payment devices.
- Using Python, C#, .NET Core, and Distributed Computing as our technology stack.
- Led and produced a cutting-edge solution during the 2019 Hackathon by Microsoft and is currently being filed as a patent.

Teacher Assistant, University of Oklahoma

*08/2018 – 12/2018*

- Facilitated a professor in helping run an Introduction to Programming class, with about 200 students.
- Aided students in both weekly labs and office hours.
- Graded both the projects and online coding questions, as well as helping proctor the exams.

Software Development Intern, IBM

*05/2018 – 08/2018*

- Interned in the IBM CIO's office in the Identity and Access Management domain, developing tooling and automation to aid in self-service registration for SSO.
- Refined a micro services replacement to a monolithic application that enables applications owners to self-register applications supporting OIDC and SAML.

Virtualization Engineer Intern, Verizon

*06/2017 – 08/2017*

- Worked with an internal virtual acceleration team to create and manage Windows and Red Hat Linux servers on virtual machines for clients, using a platform called vSphere.
- Completed a certified two-day course called "VMware vSphere: Skills for Operators" that gave hands on experience.
- Placed 1<sup>st</sup> in Verizon's company-wide intern hackathon, and our solution is currently being considered for a patent.

Research Assistant, University of Oklahoma

*08/2016 – 12/2016*

- Worked on an application called Transit Assistant that assists ODOT agencies around the state to perform taxi services.
- Enhanced the backend by modifying C# classes and fixing bugs for the desktop application.
- Rewrote XAML & C# files to follow the MVVM standard.

Software Engineer Intern, Verizon

*06/2016 – 08/2016*

- Renovated an internal enterprise framework tool that generates HTML based on JSON objects or REST end points.
- Improved existing code by adding more efficient functionality and patching bugs.
- Slashed 82% of development time with this application, which yielded roughly \$1.6M in cost savings.

## EDUCATION

University of Oklahoma, Bachelor's in Computer Science  
08/2014 – 12/2018

Activities and Societies: ACM, Association for Women in Computing, Jerry Holmes Leadership Program, Software Studio, OU E-Sports Association, Steam Curator

Awards: Dean's Honor Roll, Josh Lee Speech Competition, One U Cup, School of Comp. Sci. T-Shirt Contest