

# Joshua T. Beck

319-432-3052 • JoshuaThomasBeck@gmail.com  
<https://josh-beck.github.io>

## OBJECTIVE:

Software developer seeking a full-time role in cyber and information security

## TECHNICAL SKILLS:

**Programming:** Java, Python, C, **Information Security:** Kali Linux, Burp Suite, Nmap

**AWS:** EC2, S3, ELB/ASG configuration, **Code Infrastructure:** Bitbucket, GitHub, Jenkins, Sumo Logic, New Relic

**API:** API development, REST, Postman, JSON, YAML, **Team Management:** Agile, Jira, Pager Duty

## WORK EXPERIENCE:

### Associate Software Engineer

June 2020 – Present

*Genesys – Cary, North Carolina*

- Maintain 3 stateless micro services and 7 stateful data clusters using cloud-based methodologies
- Develop new features using Object Oriented Programming in Java
- Improve efficiency of large data processing using threading, batching and connection pooling
- Repair and restore malfunctioning systems while maintaining regulatory compliance
- Integrate team functionality with public API code, security, and processes
- Utilize the fundamentals of Infrastructure as Code and CI/CD to ensure reliable delivery of product
- Rigorously testing code with integration, unit, and local end to end tests
- Support team development through code review

### Software Engineering Intern

October 2019 – June 2020

*John Deere – Ames, Iowa*

- Wrote test cases for integrated control components using C
- Automated test systems to improve efficiency and accuracy using batch scripting and PowerShell
- Modified embedded controllers to enhance initialization & shutdown sequences
- Developed and delivered software to customer as part of the agile development process

### Product Engineering Intern

May 2019 – August 2019

*John Deere – Waterloo, Iowa*

- Used Creo Parametric to design an integrated fitting for engine measurement
- Processed and analyzed data using Matlab to facilitate understanding of engine performance
- Inspected engine components to assess probable cause of engine failure

### Salesforce Development Intern

May 2018 – August 2018

*Principal Financial – Des Moines, Iowa*

- Developed a Salesforce chat function with a scrum team using the agile development process
- Collaborated with multiple teams to integrate chat function with client facing platform
- Improved graphical interfaces to simplify and optimize data visualization
- Identified potential APIs and testing platforms to enhance integration and precision of current technologies

## EDUCATION:

**Iowa State University:** BS: Mechanical Engineering • Minor: Computer Science • GPA: 3.87

May 2020

## PROJECTS:

### HackTheBox

- Use Kali Linux along with a suite of tools to inspect and infiltrate a variety of web sites, hosted machines, etc.
- Learning from official and user submitted write ups of previous boxes and challenges
- Use Python to experiment with and develop tools for use in red team scenarios

### Twitter API

- Developed a program to interact with the Twitter API using Python
- Performed get and post operations using 3<sup>rd</sup> party libraries and JSON parsing
- Designed a graphical user interface to create a game based on queried tweets