

# Justin M. Konecny

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*Available: July – December 2019*

## Education

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**Northeastern University** Boston, Massachusetts

August 2017 – Present

**Khoury College of Computer Sciences**

*Candidate for Bachelor of Science in Cybersecurity, Minor in Mathematics*

Expected Graduation: May 2022

**Academics:** GPA: 3.91/4.00 | Dean's List: Fall 2017, Spring 2018, Fall 2018

**Courses:** Object-Oriented Design, Networks & Distributed Systems, Algorithms & Data Structures, Computer Systems, Fundamentals of Computer Science 1 & 2, Foundations of Cybersecurity

**Marine Academy of Science and Technology** Sandy Hook, New Jersey

September 2013 – June 2017

**Academics:** GPA: 96.86/100.00 | Awards: Outstanding Academic Achievement in Mathematics

**Leadership:** National Honors Society, Spanish Honors Society (President), NJROTC

**Senior Project:** Designed and developed an autonomous, animatronic stingray using Arduino and 3D printing

## Computer Knowledge and Skills

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**Languages:** Java, Python, C, C++, AMD64 Assembly, Racket, LaTeX, PostgreSQL (Familiar), Vue.js (Familiar)

**Certification:** AWS Certified Cloud Practitioner (2018)

**Software:** Linux CLI, IntelliJ, Eclipse, PyCharm, Git, GDB, DrRacket, MacOS, Windows, XCode (Familiar), Microsoft Office Suite, Visual Studio (Familiar), Vim (Familiar), Autodesk Inventor

## Software Projects

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**Interactive Animator**

Summer 2018

- Developed an interactive interface through paired programming in Java to display text-based animations
- Implemented MVC design pattern using Java Swing to output interactive, visual, and textual animation views

**File System**

Fall 2018

- Programmed a mountable, ext-style file system in C using FUSE API and memory-mapped file storage
- Implemented a disk image to allow creation and manipulation of nested directories and variable-length files

**Memory Allocator**

Fall 2018

- Created a thread-safe memory allocator in C using mutexes, memory-mapped pages, and pointer arithmetic
- Utilized bucket-style free-lists to handle allocation, reallocation and freeing of varying sized memory chunks

## Professional Experience

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**Vonage** Holmdel, New Jersey

Summer 2018

*Information Security Associate*

- Implemented a PostgreSQL vault on an AWS EC2 instance for secure storage/retrieval of team information
- Developed a Python script to process and record information from vulnerability scans of thousands of hosts
- Employed Python scripts to facilitate cloning hundreds of GitHub repositories for static source code analysis
- Reviewed and submitted Jira tickets to track bug fix requests and project progress across company teams

**NJ Sea Grant Consortium** Sandy Hook, New Jersey

Summer 2014 – 2017

*Summer Counselor*

- Organized and administered educational activities and hands-on experiments for 20+ students
- Educated student campers about historical and marine science subject matter using mixed media

## Additional Information

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**Campus Involvement:** Founding Father of Phi Gamma Delta Chapter, HackBeanpot, Circle K

**Interests:** Snowboarding, Running, Cooking, Traveling, Hiking, Spanish Language/Culture, A.I., Deep Learning