Ryan Geary `<ryanthomasgeary@gmail.com>`

(732)-320-8440   https://theryangeary.github.io

EDUCATION

University of Delaware   *August 2016-May 2020*
Honors Bachelor of Computer Engineering
- Cybersecurity minor
- Computer Science minor
- GPA: 3.9, Dean's List
- Relevant coursework: Operating Systems, Secure Software Design, Networks, Data Structures, Software Engineering, System Hardening & Protection, Computer Systems Engineering, Computer Systems Design, Microprocessor Systems, Signals and Systems, Electronic Circuit Analysis

TECHNICAL SKILLS

AWS Lambda and Fargate, Bash, Bitbucket Pipelines, C++, C, Docker, GDB, Git, GraphQL, JSON, Java, Linux, MIPS Assembly, Make, MongoDB, Python, REST, Radare2, Rust, SQL, Test Driven Development, Travis CI, UNIX shell scripting, VHDL, Valgrind, Vim, x86 Assembly

EXPERIENCE

Contrast Security - Baltimore, MD (Forbes' "Next Billion-Dollar Startups 2019", $122 million raised by Series D)   *June 2019-August 2019*
Summer Associate Software Engineer
- Exercised Agile Scrum methodology in a team of 5, incl. daily standup, 2-week sprints, sprint planning, and retrospectives
- Developed a GitHub application to provide visibility into- and remediation of vulnerable dependencies in open source repositories
- Integrated internal security intelligence platform and GitHub using Python, GraphQL, Webhooks, and AWS Lambda functions
- Implemented CI/CD to AWS using the Serverless framework through Bitbucket Pipelines
- Created Docker images to resolve Maven, Gradle, NPM, Pip, NuGet, and RubyGems dependencies through AWS Fargate

University of Delaware - Newark, DE   *January 2018-May 2019*
Research Assistant
- Developed motor controller logic and GUI for custom printer using MATLAB
- Conducted research in 3D printing pharmaceuticals using syringe dispensing and fused deposition modeling techniques
- Produced carbon-based ink for high radio-frequency impedance

Teaching Assistant
- Assisted students in understanding key electrical and computer engineering concepts in Analog Circuits

Commvault Systems - Tinton Falls, NJ (Bell Labs spin-out)   *Nov 2015-Aug 2016, Jun 2017-Aug 2017*
Development Intern
- Developed natural language search functionality for easy and effective data recall using C# and MongoDB
- Trained natural language search model using API.AI (now Google's Dialogflow)
- Designed cloud-based data management interface for visual media using Django web framework

COMPUTING PROJECTS & ACCOMPLISHMENTS

- President of Linux Users Group at University of Delaware
  - Give educational talks about Linux, free and open source software and tools, and programming concepts
  - Promote the use of Linux based operating systems in the campus community for educational and daily use
- Vice President of Eta Kappa Nu Electrical and Computer Engineering Honor Society
- Member of Blue Hens CTF team, ranked 21st in USA on ctftime.org
- Junior Design Project [`github.com/theryangeary/cactusd`]
  - Created bluetooth enabled shoe insoles to track foot pressure in track-based sports in an interdisciplinary team
  - Applied object-oriented C++ abstractions to extend the Espressif ESP32 BluetoothLE library to provide a uniform API for both client and server systems
- ginh [`github.com/crclark96/ginh`]
  - Codeveloped bash script to generate bar chart analyzing a user's shell usage patterns
- Member of student-led research group developing Arduino-based guitar playing robot
  - Implemented low level MIDI file library for playback [`github.com/theryangeary/MIDIFile`]
  - Reduced existing codebase by 50%
- take-me-to-your-leader Vim plugin [`github.com/theryangeary/take-me-to-your-leader`]
  - Provided Vim leader command organizational tool and extended syntax highlighting in VimScript
- Eagle Scout Award