

## CARSON HAKE

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| www.linkedin.com/in/carsonhake/ | www.carsonhake.dev | github.com/Chake96 |

### COMPUTER EXPERIENCE:

- Languages:
  - Strongest:
    - C++, Python, Java, Javascript, HTML, CSS, React
  - Experienced:
    - C, PHP, MatLab, SQL, MYSQL, Racket, Pytorch
- Software:
  - Fast.ai
  - AWS and Google Cloud Linux Instances
  - Google Analytics & Firebase
  - Experienced in Windows & Linux Systems: Ubuntu, Kali, Debian, BackBox
  - Vim, MS Visual Studio, MS Visual Code with Platform IO, Eclipse, Wordpress
  - Hypervisor: VMware Workstation
  - Security Tools: UFW, pfSense, SNORT, ZEEK, Wireshark, Burpsuite, Sn1per, OSForensics, ProDiscover Basic, Splunk Light

### WORK EXPERIENCE:

- **Webmaster** (2014) <https://www.delawarecrew.com> (volunteer)
- **IT Helpdesk Intern** (December, 2015 - May, 2016) University of Delaware, College of Engineering
- **Web Developer** (March, 2016 – May, 2017) University of Delaware: College of Engineering
- **Software Developer** (January, 2017 – March, 2017) University of Delaware: Weinberg Corporate Governance Center.
  - **Duties:** Web scraping and Data Handling
- **Web Developer** (August 2016 – October 2018) University of Delaware: Department of English
  - **Duties:** Maintained and updated [www.arakjournal.org](http://www.arakjournal.org)
- **Computer Science Tutor** (May, 2016 – December, 2018) Chegg Inc.
- **VIP & GEL** – (~2017 – May, 2019) University of Delaware, Deep Learning Projects
  - **Duties:** Babbage Analytical Engine for the University's Admissions Office
- **Founder** (May 2019 – August 2020) Cake Technology: <https://www.caketech.com>

### CURRENT PROJECTS AND INTERESTS:

- Patent Pending Inventor
- Robotics and Embedded Systems, Current Project: Autonomous Landscaping Robot
  - <https://www.carsonhake.dev/cake.html>
- Learning Deep Learning & Machine Learning Theory
  - Includes implementing ideas in Pytorch and the Fastai Library
- [www.caketech.com](http://www.caketech.com) and [www.carsonhake.dev](http://www.carsonhake.dev)
- 3D Design, 3D Printing, Metal fabrication, Basic Circuit Design and Soldering
- Numerical Linear Algebra
- C++ and Python Algorithms, Data structures, Templates, and Secure Design
- Linux Hardening & Network Security

### EDUCATION:

- 9/2012-5/2014: High School Diploma, New Albany High School
  - Notable Course Work: Robotics, Introduction to Programming
- 9/2014-5/2019: Bachelor of Science in Computer Science, University of Delaware
  - Notable Course Work: Introduction to Computer Science, Introduction to Computer Science II, Data Structures, Web Application Security, Computer Forensics, Machine Organization and Assembly Language Logic & Programming, Operating Systems, Advanced Software Engineering, Secure Software Design (C++), Automata Theory, Computer Networks, Computer Ethics, VIP Program, System Hardening and Protection, Calculus 1 & 2, Discrete Mathematics, Statistical Methods
  - Minor in Cyber Security, Concentration in Automation