

Nathaniel Burgdorfer

Software Developer

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Work Experience

Software Engineering Intern - Masters, L3Harris Technologies, Clifton, NJ Jun 2020 – Aug 2020

- Development on embedded systems algorithms involving Radar technology and signal processing. (C++)
- Integrating automation and data collection into existing unit tests for signal processing algorithms. (C++)

Software Developer, DexterityDB, Hoboken, NJ Dec 2018 – Jun 2020

- Developing parts of the company's core engine with a small team of systems developers (C++, Rust)
- Implementing build and test servers utilizing docker containers and cloud services. (Python, Bash, GCP)
- Enhancing and extending plugin features of the database engine. (C++)

Software Engineering Intern, K2 Intelligence, NYC, NY May 2019 – Aug 2019

- Research and implementation of new technology for business productivity.
- Scripting business processes involving user information storage and product administration. (PowerShell)
- Leading the development of the company intranet. (SharePoint, HTML, JavaScript, CSS)

Education

Masters of Science, Machine Learning, Stevens Institute of Technology, Hoboken, NJ Dec, 2020

- **GPA** – 3.95
- **Coursework:** Machine Learning, Computer Vision, 3D Computer Vision, Statistical ML, Parallel Programming on Many-Core Processors, Deep Learning, Natural Language Processing, Artificial Intelligence
- **Research:** Computer Vision and Machine Learning with a focus in Multi-View Stereo and Depth Fusion. (C++)

Bachelors of Science, Computer Science, Stevens Institute of Technology, Hoboken, NJ May, 2020

- **GPA** – 3.85
- **Coursework:** Concurrent Programming, Operating Systems, Systems Programming, Programming Languages, Web Programming I, Database Management, Algorithms, Data Structures
- **TA:** CS-392 Systems Programming, CS-511 Concurrent Programming, CS-284 Data Structures, CS-383 Computer Organization and Programming
- **Upsilon Pi Epsilon**, Member of the International Honor Society for the Computing and Information Disciplines
- **Honors**, Dean's List, Graduated with High Honors

Associates, Engineering, Ocean County College, Toms River, NJ May, 2017

- **GPA** – 3.92
- **Phi Theta Kappa**, Member of the International Honor Society for Two-Year Colleges and Academic Programs
- **Honors**, Dean's List

Research and Skills

Computer Vision Research Assistant

- Research and development in the area of Multi-View Stereo Vision.
- Development of tools for basic webscraping of images from stereo vision online datasets. (Bash, Python)
- Development of tools to measure correlation between stereo vision algorithm bench results. (Python)

Software/Tools: Linux, Vim, OpenCV, CUDA, TensorFlow, PyTorch, Keras, Git

Languages: Python, C++, C, Erlang, OCaml, Java, Bash