

Nathaniel Burgdorfer

Software Developer

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in nathaniel-burgdorfer

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Work Experience

Software Developer, DexterityDB, Hoboken, NJ

Dec 2018 – Current

- Developing parts of the company's core engine with a small team of systems developers (C++, Rust)
- Building development tools for the company through cloud services, including setting up build and test servers utilizing docker containers for testing on different operating systems. (Python, Bash)
- Enhancing and extending plugin features of the database engine. (C++)
- Working on any projects the company needs.

Software Engineering Intern, K2 Intelligence, NYC, NY

May 2019 – Aug 2019

- Researching new technologies to incorporate into the existing workflow of employees.
- Scripting business processes, such as handling user information storage and organization, employee administration, and product administration using Windows Powershell, Active Directory/Azure AD, and Office 365 (Powershell)
- Leading the development of the company intranet to increase collaboration and productivity. (SharePoint, HTML, JavaScript, CSS)

Education

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

Dec, 2020

- **GPA** – 4.0
- **Coursework:** Machine Learning, Computer Vision, 3D Computer Vision, Statistical ML, Parallel Programming on Many-Core Processors

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

May, 2020

- **GPA** – 3.9
- **Coursework:** Concurrent Programming, Systems Programming, 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

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

May, 2017

- **GPA** – 3.9
- **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

- Began general learning into the topic of computer vision, part of which involved the review of several deep learning papers for stereo vision
- Research and development in the area of stereo vision
- Developed tools for basic webscraping of images from stereo vision online datasets (Bash, Python)
- Developed tools for creating correlation matrices between stereo vision algorithm bench results from multiple online benchmark suites (Python)

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

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