

Ryan Kopec

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22 Water Street • Cambridge, MA 02141 • 856.745.9693

Education:

Masters of Science, Computer Science

Specialization: Machine Learning

Georgia Institute of Technology

Bachelor of Science, Mechanical Engineering

Minor: Electrical Engineering

Drexel University

Experience:

Software Development Engineer, Amazon Web Services, Boston, MA.

October 2021 – Present

- Authored and presented design documents for new features to Code Catalyst data storage system.
- Utilized lambda functions, EKS, Step functions, S3, DynamoDB and other AWS products to develop new features for my team's service (storage system for Code Catalyst).
- Constructed new products Typescript and Java to store, transform and deliver customer data which will be used by other Code Catalyst services.
- Developed tools to perform Ops tasks to expose root cause and interact with service components in Typescript.
- While on-call, worked with other teams within Code Catalyst from a variety of different services to find the root cause of the issues and devise a solution.

Senior Algorithm Developer, CVision AI, Remote.

January 2020 – April 2020

- Improved Deep Learning Computer Vision algorithms in Keras/Tensorflow and developed analytic tools and scripts to examine performance of algorithms.
- Trained Resnet and Retinanet architectures to detect and classify assorted marine species in videos.
- Created tests in Jest and improved front-end written in Javascript, CSS and HTML.
- Maintained software using Python, Javascript, Docker and Kubernetes.

Graduate Teaching Assistant, Georgia Institute of Technology, Atlanta, GA.

September 2018 – December 2019

- Knowledge-Based Artificial Intelligence

Software Engineer, Slyce, Philadelphia, PA.

April 2019 – August 2019

- Developed visual search applications using Python, Javascript, Angular, HTML, CSS MongoDB, PostgreSQL, Docker, TensorFlow, Keras, and Kubernetes.
- Assembled tools to analyze and increase the accuracy of developed machine learning and computer vision algorithms.
- Utilized Git and GitHub to update and track code.
- Maintained and revised web applications on Google Cloud Platform.

Software Engineer, Lockheed Martin, Moorestown, NJ.

March 2015 – April 2019

- Debugged and developed software in C++ to improve the current implemented system.
- Developed tools for analysis using Python, Pandas, NumPy, and MATLAB.
- Wrote Python, Pandas, and NumPy code to quickly process data received from the models and displayed data in charts and graphs on a PowerPoint or PDF.
- Collaborated with cross-functional engineering teams to execute new filters and algorithms with C++, Git, and Jenkins to improve the system's performance.

Scrum Master, Lockheed Martin, Moorestown, NJ.

August 2016 - 2017

- Managed JIRA, conflicts, and backlog for a team of eight engineers.
- Organized sprint planning meetings, retrospectives, and daily scrums.
- Collaborated with product owner and business development leads.
- Reinforced and educated team on scrum and agile methods to improve planning.

Skills:

C++, C, Python, Java, CSS, HTML, SQL, Unreal Engine, Javascript, Git, GitHub, Android SDK, Unix, Linux, Windows, MacOS X, Bootstrap, jQuery, Go, Node JS, React.js, Django, Flask, TensorFlow, Caffe, Keras, OpenCV, PyTorch, Pandas, NumPy, scikit-learn, Jenkins, GCP (Google Cloud Platform), AWS, Docker, Kubernetes, ROS, Jest, Swift