Jacob Mingolla

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Work Experience

Brightcove, Inc.   2016 → 2021

Senior Software Engineer   2019 → 2021

- Designed, constructed, and patented a server-side ad insertion solution for client interactivity at enterprise scale, meeting strict infrastructure and design criteria
- Led design and implementation for a Kubernetes infrastructure monitoring system used by Brightcove's back-end engineers for general dev-ops and crisis management
- Assisted in founding organization-level initiative for documentation reform

Software Engineer   2016 → 2019

- Completed in-place migration of large data store with zero downtime
- Identified and optimized bottleneck in organization-level process to reduce runtime
- Developed system for proactively monitoring customer analytics and predicting usage
- Orchestrated major version update for customer-facing REST API and assisted customers in configuring and upgrading plugin integrations
- Presented new products and design improvements to customers and led workshop on platform integration at multi-day, in-person conference (Brightcove PLAY 2019)
- Learned fundamentals of REST API design, testing, and operational monitoring

Invaluable, LLC *Software Developer Summer Intern*   Summer 2014 & 2015

- Refactored Python-based email alerts and messaging system into Java

Education

Cornell University *Machine Learning Certificate*   Fall 2021

- Completed intensive course introducing foundations of machine learning via Python
- Learned mathematical theory behind many linear classifiers and regression systems
- Implemented bi-weekly assignments in image recognition, spam classifiers, and deep neural networks using NumPy and PyTorch

Tufts University *BS Computer Science, magna cum laude*   2012 → 2016

Community

Mudflat Pottery School *Student*   2018 → Present

Tufts University *Computer Science Teaching Assistant*   2014 → 2015

- Assisted students in coding and project design for beginner and data structures classes

Peer Health Exchange *Health Workshop Leader*   2013 → 2014

- Taught hour-long workshops about health and wellness to Boston-area teenagers