

Maxime Kawawa-Beaudan

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EDUCATION	University of California, Berkeley , Berkeley, CA <i>B.A. in Computer Science, Minor in Creative Writing, GPA: 3.88/4.00</i> <ul style="list-style-type: none">Coursework: Machine Learning, AI, Probability Theory, Efficient Algorithms, Convex Optimization, Robotics, Computer Architecture, Data Structures, Linear Algebra	Aug. 2017 - Dec. 2021
PROFESSIONAL EXPERIENCE	Berkeley Artificial Intelligence Research , Berkeley, CA <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Investigating deep learning methods for image compression in the Video and Image Processing Lab. Building hierarchical autoencoders with PyTorch to jointly optimize for recognition, distortion, and compression performance.Training architectures end-to-end on AWS to produce fully learned systems competitive with traditional codecs. Backed by a \$25,000 research grant from Amazon.Authored a proposal for a Sony Focused Research Award, aggregating preliminary results in a bid for up to \$150,000 in funding. Working on a paper to be published by end of year.Designed and implemented the cloud compute system used to train models, yielding a sixfold improvement in training times – allowing group to train in 1 hour, 40 minutes what used to take overnight. Contributed 98% of lines of code in repository. Salesforce, Inc. , San Francisco, CA <i>Software Developer Intern</i> <ul style="list-style-type: none">Developed scalable algorithms with the data science team for Salesforce’s AI group, Einstein. Researched anomaly detection for streaming data to identify actionable irregularities. Proposed method helped team launch the Messaging Insights feature, used by thousands of marketers worldwide.Derived a novel approach combining density-based filtering with known methods to address application-specific failure modes like imprecision and over-detection due to noise.Tackled problems regarding scale – clients being large and numerous enterprises with heavy data demands – with Scala and Apache Spark running on AWS clusters. Dahlia Lights , Millbrae, CA (acquired) <i>Software Developer Intern</i> <ul style="list-style-type: none">Worked as fifth employee at a startup developing AI-powered home control systems.Designed entire back end for automated data collection and user habit analysis on Google Cloud. Refactored 80% of client-side code base to improve general responsiveness.	Apr. 2020 - Present Jun. 2019 - Aug. 2019 May 2018 - Aug. 2018
PROJECTS AND LEADERSHIP	Published Author , Berkeley, CA <i>Author of 50+ short stories</i> <ul style="list-style-type: none">Published the short story “Waiting for Fireworks” in <i>Glimmer Train</i> literary journal (publishes 40 stories out of 40,000+ submissions per year). Published the accompanying essay “A Constitution for a Young Artist” in the same issue (Fall 2018).Placed first in <i>Glimmer Train</i> Short Story contest, claiming \$3,000 purse (2017).Finalist in the National YoungArts Foundation talent contest (2017). Studied in master classes from renowned authors. Awarded a \$3,000 merit-based grant to fund further work. Introduction to Teaching Computer Science , Berkeley, CA <i>Peer Tutor</i> <ul style="list-style-type: none">Provided one-on-one instruction for 20+ students enrolled in introductory computer science courses, including CS61A (computer programs) and CS61B (data structures).	Aug. 2014 - Present Aug. 2018 - Dec. 2018
SKILLS	Experienced With: Python, Java, Scala, C, AWS, Google Cloud, Apache Spark, PyTorch Languages: English (native), French (fluent)	