

## Aaron Beomjun Bae

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### SUMMARY

Looking to join Apple's NLP & Deep Learning research team as a Summer Intern in 2020

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### EDUCATION

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| <b>University of California – Irvine</b> , Master of Science in Computer Science   | Sept. 2019 – June, 2020 |
| <ul style="list-style-type: none"><li>• Interests in NLP, especially on applications of Knowledge Base improved by additional intelligence gathered from sentiment analysis techniques.</li><li>• Member of Associated Graduate Students and the Center for Machine Learning and Intelligent Systems</li></ul> |                         |
| <b>University of Washington</b> , Bachelor of Science in Mathematics   | Sept. 2015 – June, 2019 |
| <ul style="list-style-type: none"><li>• Focus on stochastic models and their applications in graph-based modeling</li><li>• Participant in WXML research team, and a member of Sigma Nu fraternity</li></ul>   |                         |

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### EXPERIENCE

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| <b><u>Undergraduate Researcher</u></b><br><i>Washington Experimental Mathematics Lab</i>  | Jan. – June, 2019  |
| <ul style="list-style-type: none"><li>• Guided by professor Christopher Hoffman, we created a probabilistic model to prove Gerrymandering.</li><li>• NetworkX, C++, Cython, MapboxGL, Websockets</li></ul>  |                    |
| <b><u>Graduate Research Lab Assistant</u></b><br><i>Emisa Nateigh's research</i>  | Jul. - Dec., 2018  |
| <ul style="list-style-type: none"><li>• Assisted Emisa Nateigh in carrying out her research paper on predicting PFS of the patients with their medical history and corresponding treatments.</li><li>• Multi-Task Warped Gaussian Kernel, D3.js, matplotlib, NumPy, SciPy, TensorFlow, and interacting with CSV's.</li></ul>            |                    |
| <b><u>Software Engineering Intern</u></b><br><i>Crowd Cow</i>   | June – Sept., 2017 |
| <ul style="list-style-type: none"><li>• E-commerce platform company in downtown Seattle</li><li>• As a software engineering intern, worked on creating an office dashboard that can be specifically tailored to the users (company employees') needs.</li><li>• MySQL, Ruby on Rails, Git, Bundler, RuboCop, Stripe, and Puma</li></ul> |                    |

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### PROJECTS – AVAILABLE IN GITHUB

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| <b><u>QA System (in progress)</u></b>  | 2019 |
| <ul style="list-style-type: none"><li>• I am in the process of developing a Question Answering system that populates a knowledge base from text-based sentiment analysis strategies.</li><li>• Hoping to submit precise proposal and a funding requests to the CS Department by the end of fall.</li></ul> |      |
| <b><u>Recruiting for Unite UW</u></b>  | 2018 |
| <ul style="list-style-type: none"><li>• A recruitment assistance software for UW campus organization "Unite UW".</li><li>• Used sentiment analysis to analyze the candidate's qualifications.</li></ul>  |      |
| <b><u>Personal Website</u></b>   | 2018 |
| <ul style="list-style-type: none"><li>• A simple personal website to showcase my achievements so far</li><li>• Planning to add blog/ note taking feature</li><li>• Node.js, React.js, Apache, Express, Redux, and AWS</li></ul>  |      |
| <b><u>Baroque Chess Agent</u></b>  | 2018 |
| <ul style="list-style-type: none"><li>• An intelligent decision-making agent. Used many different strategies and compared the performance.</li><li>• Q-value based learning agent outperformed A* and mini-max style adversarial search strategies.</li></ul>  |      |