

# Kevin Loc

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## EXPERIENCE

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### Amazon

October 2020 – October 2022

*Software Development Engineer - Amazon Kids - Seattle, WA*

- Reduced content metadata search turnaround time by 20% through implementation of an ElasticSearch accessor as a metadata querying service which is used throughout the Amazon Kids+ organization
- Elevated organization's earnings and marketing effort by creating an XML file generator that aggregates metadata to enable Amazon Kids+ subscription up-sale on Amazon's Prime Video and FireTV
- Improved customer retention and acquisition rate by 24% through introduction of new scalable metadata fields to facilitate the Amazon Kids premium content store and Freemium subscription model
- Decreased team's monthly operational costs by 10% through deprecation of the legacy CloudSearch search engine, contributing to team effort of decreasing overall costs by 44%
- Enhanced the internal full stack web page used to manage and view content metadata by implementing multiple quality of life improvements using NodeJS, Typescript, CSS, HTML, and RESTFUL APIs
- Designed a metadata backfill tool that ensures that data between the database and ElasticSearch cluster are synced for a more consistent customer search experience
- Implemented an automated content transcript evaluation workflow to evaluate for child appropriateness using Amazon MechanicalTurk, Lambdas, and SAM
- Spearheaded the reconfiguration of the search query generator which increased search accuracy by 28% and search usage by 15% for over 4 million Amazon Kids+ customers in North America, Europe, and Japan

### Siemens Digital Industries Software

June 2019 – September 2019

*Software Developer Intern - Nx CAD - Cypress, CA*

- Assisted 3,000+ companies in the automation of product and manufacturing info tags on 3D assembly models by introducing 7 new scalable C++ constructs into the large-scale application and refactoring 23 legacy constructs
- Prevented future regressions by creating 20+ unit tests which enable automated testing coverage for all new code developed in the fast-paced, international team environment

### Moboware Inc

June 2018 – September 2018

*IT Support Intern - Tustin, CA*

- Reduced the runtime of usage statistic queries by 10% by assisting the backend development team in optimizing Python and SQL database scripts
- Increased company monthly profit margins by 12.8% by performing cloud server builds, configurations, images, and quality assurance checks before shipping the server to worldwide data centers

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## EDUCATION

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### University of California, Irvine

June 2020

*Bachelor of Science in Computer Science*

*Major GPA – 3.43 | UC GPA – 3.34*

- **Awards:** Forbes Under 30 Scholar, Dean's Honor List
- **Courses:** Machine Learning, Data Mining, System Design, Information Retrieval, Data Management
- **Organizations:** ICS Student Council, HackUCI, Lambda Phi Nu, Alpha Phi Omega

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## TECH SKILLS

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- **Confident:** Java, Python, C++
- **Experience:** NodeJS, JavaScript/TypeScript, HTML/XML, CSS, Git, SQL, MongoDB, Java Spring/Dagger frameworks
- **AWS Stack:** Lambda, DynamoDB, S3, EC2, SQS, SNS, SAM, Glue, Athena, Cloud Development Kit, CloudFormation, CloudWatch, MechanicalTurk, OpenSearch Service (Elastic Search, ECS)