

Daniel Thureau

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EDUCATION

- **University Of California: Santa Cruz** Santa Cruz, CA
Bachelor of Science in Computer Science; GPA: 3.33 *Sept. 2014 – Jun. 2018*

EXPERIENCE

- **Amazon** Santa Cruz, CA
Software Engineer *Oct 2018 - Present*
 - **Alexa Mobile Personalization:** Created a Ranking as a Service (RaaS) web service that deployed machine learning models for channel owners across the Alexa Mobile Org. Developed a data pipeline using AWS Kinesis Streams, AWS Lambdas, AWS DynamoDb and AWS S3.
 - **Alexa Mobile Home Channel:** Built and maintained REST microservices using AWS infrastructure, including a content aggregator platform that could be published to by domains across Alexa. Developed a Content Management System (CMS) for product managers to easily create static content. Created Privacy Compliance applications that satisfied GDPR, COPPA, and CCPA laws. Lead efforts in chaos and load testing against backend services.
- **Economics Lab: University Of California** Santa Cruz, CA
Developer *Apr 2017 - Oct 2018*
 - **Simulations:** Simulated how players may behave during open market experiments by allowing professors to write processable actions using Gherkin Syntax Language.
 - **Test Harness:** Developed a test harness to evaluate and analyze simulated stock markets for department research projects.
 - **Open Source:** Contributed to a branch of Redwood, an open-source project for coordinating distributed players in a simulated market written in JavaScript.
- **NBCUniversal** Studio City, CA
Security Analyst and Developer Intern *Summer 2017*
 - **Developer:** Created and administered a python backend library utilizing OOP concepts to create a scalable scanning utility to verify security subsystems for NBCUs corporate and production networks.
 - **Server Management:** Configured, deployed, and managed production Linux servers to host internal and external applications.
 - **Notifications:** Implemented a notification system for real time notifications to NBCUs Information Security Group when vulnerabilities were detected.

PROJECTS

- **Rocket Team at UCSC:** Project lead and chief architect for the in-flight telemetric computer. Project scope included building a feedback system for realtime adjustment and aero-braking all written in C. Project lead and chief architect for the image-processing team, project scope included building a system to identify given targets in real time using OpenCV and scipy/numpy.
- **Document Management System:** C++ object oriented system layered on top of a Linux FS residing in user space. Mapped all available files in user space and added two other filing methods: categories and topics which allowed searching across these tags.

PROGRAMMING SKILLS

- **Languages:** Java, Python, Bash, Javascript, C/C++, SQL, Latex **Technologies:** AWS, Spring, Django, Jupyter