

# Kyle Kennedy

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## EDUCATION

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### Appalachian State University

*Bachelor of Science in Computer Science*

Boone, NC

Aug. 2017 - Dec. 2022

## PROFESSIONAL EXPERIENCE

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### Mountain Dev

*Technical Lead*

Boone, NC

November 2025 - Present

**Tensorflow:** TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.

**Apache Beam:** Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.

### ECR Software Corporation

*Full-Stack Software Engineer*

Boone, NC

January 2023 - October 2025

**Notifications:** Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.

**Nostos:** Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.

**Workflows:** Dataduct an open source workflow framework to create and manage data pipelines leveraging reusable patterns to expedite developer productivity.

**Data Collection:** Designed the internal survey and crowd sourcing platform which allowed for creating various tasks for crowd sourcing or embedding surveys across the Coursera platform.

**Dev Environment:** Analytics environment based on docker and AWS, standardized the python and R dependencies. Wrote the core libraries that are shared by all data scientists.

**Data Warehousing:** Setup, schema design and management of Amazon Redshift. Built an internal app for access to the data using a web interface. Dataduct integration for daily ETL injection into Redshift.

**Recommendations:** Core service for all recommendation systems at Coursesa, currently used on the homepage and throughout the content discovery process. Worked on both offline training and online serving.

**Content Discovery:** Improved content discovery by building a new onboarding experience on coursera. Using this to personalize the search and browse experience. Also worked on ranking and indexing improvements.

**Course Dashboards:** Instructor dashboards and learner surveying tools, which helped instructors run their class better by providing data on Assignments and Learner Activity.

## SKILLS, TOOLS, AND TECHNOLOGIES

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**Languages:** Java, Python, SQL, JavaScript,

**Frameworks:** AWS, Play, React, Kafka, GCE

## AWARDS

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**QuantSoftware Toolkit:** Open source python library for financial data analysis and machine learning for finance.

**Github Visualization:** Data Visualization of Git Log data using D3 to analyze project trends over time.

**Recommendation System:** Music and Movie recommender systems using collaborative filtering on public datasets.