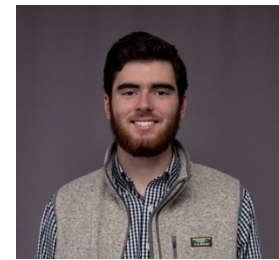augustnagro@gmail.com

August Nagro
Scala & Java Software Engineer

Work Experience

Axoni - Software Engineer	Developed fintech applications with Scala & Java.
Clarity Partners - Software Engineer	• Led a team of five developers to design and implement the Hearing Scheduling algorithm for Chicago's Department of Law, processing ~5 thousand property cases per month, worth millions of dollars. • Developed the backend for Chicago's Shared Housing Portal, which every AirBnB host registers with. Functional design patterns delivered a robust product, ahead-of-schedule. I also drove the team-of-nine's migration to Agile, boosting productivity and teamwork during pandemic lockdowns. • Solved challenging concurrency bugs in large, unfamiliar codebases.
UnitedHealth Group	Worked in UHG's Big Data Platform as a Service (BDPaaS) group, designing metrics with Spark on HDFS to track application performance for the new Optum healthcare suite. 95 percentile response time was improved to 32ms from 408, and user engagement soared 29 percent.
Pancreatic Cancer Research at Northwestern University	Researched Transforming Growth Factor Beta (TFGß)'s effect on epithelial-mesenchymal transition with Dr. Paul Grippo of NU.

Education

Iowa State University (Graduated Dec 2019)	Bachelors in Computer Science. 3.7/4.0 GPA, 34 ACT. Emphasis in analytics and hashing algorithms including count-min sketch, locality sensitive hashing, min-perf, bloom filters, etc.

Additional Experience

Open Source	• Vectorized UTF-8 validation with the JVM's incubating Vector API • Shaka, a Scala 3 JavaScript framework. • Fastest Universal Hashing implementation on the JVM. • Async-Await for Java
Frameworks and Tools	Vertx, Scala.js, Functional Programming libraries such as Cats, ZIO, FS2, Spark (RDD & SQL), Akka, Spring Boot, React, JDBC, Oracle, PostgreSQL, MySQL, Junit, Mockito, Selenium, ScalaTest, Fink, Netty, Reactive, Kafka, Jackson, Circe, Hibernate, Redux, Apache POI, JPA, OpenCSV, Apache PdfBox, Maven, SBT, Yarn, Agile, extensive knowledge of the JVM and Java/Scala standard libraries.
Iowa State Sailing Club (ISSC) President	Managed the ISSC's involvement in Intercollegiate Sailing Association (ICSA) regattas. Overhauled the ISSC's facilities and won the Big 12 Championship both in 2017 and '18.