# Kunal Baweja

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# **Professional Experience**

## • Founding Software Engineer, Hexus AI Corp.

Apr 2024 - Present

 Developing backend platform and infra for AI enabled product tours, documentation and analytics for GTM teams.

#### • Co-founder & CTO, justwords.ai (Choice AI Inc.)

Jan 2024 - Mar 2024

- Developed the AI tech stack and platform for personalized messaging for marketing content.

## • Staff Software Engineer, Reddit Inc. (Chat Discovery & Distribution)

May 2023 - Jan 2024

- Developing Community Chat Recommendations for home feed, chat tab & discover tab.
- Collaborating with product, data science and engineering teams to drive team's roadmap, strategy and engineering planning.

## Staff Software Engineer, Twitter Inc. (Tech Lead, Notifications Product Engineering)

Feb 2018 - May 2023

- Product and infrastructure engineering for News, scheduled reminders, recommended content and direct messages notifications etc.
- A/B testing product and relevance changes for notifications sent out to customers
- Lead team's technical strategy and project prioritizations with a focus on growth and retention of users on Twitter
- Experiment & Technical design shepherd for product and infra changes across tech stack
- Collaborated with PM, Data Science, Design & Legal on Notifications product strategy
- Mentored engineers on the org towards technical skills and career growth

#### • Software Development Intern, Max2 Inc (Internet Edge Services)

Sept 2017 - Dec 2017

 Developing microservices and applications for edge computing servers processing sensor readings from connected IoT devices.

## • Developer Intern, 1010data Inc (Systems Development Team)

Jun 2017 - Aug 2017

- Developed cache prototype for storing database files on local disks from persistent public cloud storage. It enables on demand computational resource provisioning in cloud.

## **Education**

 Columbia University in the City of New York, USA MS in Computer Science Sept 2016 - Dec 2017

• Birla Institute of Technology & Science, Pilani K.K. Birla Goa Campus, India B.E.(Hons.) in Computer Science

Aug 2011 - May 2015

# **Projects & Publications**

1. Hello World: Messaging sans language barriers [https://devpost.com/software/hello-world-5v89re]

Sept 2017

- Messaging app that transaltes your message's to recipient's language before delivery!
- Technologies used: Google Cloud Platform, Firebase Realtime Database, Text translation API

## 2. Coverage Based Fault Injection Fuzzing [https://github.com/akshaynagpal/cbfi]

Jan 2017 - May 2017

- Detects security vulnerabilities caused by errors in execution environment of a program by simulating and permuting system call failures and analyzing program response/crash.

## 3. Frame-Seller [https://github.com/bawejakunal/Frame-Seller]

Jan 2017 - Apr 2017

- Cloud based application for selling photographs. Developed and deployed using AWS API Gateway, AWS Lambda, SQS, SNS, Cloudwatch, Swagger and static frontend hosted on AWS S3.
- Microservices implemented: email verification, asynchronous order processing and Stripe payments.

## 4. Sigma Learn - Lecture to Notes [https://github.com/bawejakunal/Sigma-Learn]

Jan 2017

- Converts audio lectures to transcripts and summary in realtime using IBM Watson and Aylien APIs.
- It can be helpful for students with hearing impairments and/or other physical disabilities.

#### 5. A Secure Sharding Protocol for Open Blockchains [Accepted: ACM CCS-2016]

Oct 2016

- A distributed agreement protocol for committee based blockchains and scaling transaction rates.
- Weblink: http://dl.acm.org/citation.cfm?doid=2976749.2978389

### 6. Research Intern at TSUNAMi Center, National University of Singapore

Jun 2015 - May 2016

- Research projects on secure filesystems, scaling blockchain transaction rates and defending da ta oriented attacks in linux kernel.
- Implemented File Inclusion, SQL Injection and XSS tests for a web vulnerability scanner.

## **Certifications & Technical Skills**

# • Coursera.org Certifications

- Python For Everybody by University of Michigan (5 course specialization) [Certificate Link]
- Machine Learning Foundations by University of Washington [Certificate Link]

## • Technical Skills

- Scala, Java, Python, Go, C/C++, GraphQL, Hadoop, JavaScript, HTML, CSS, SQL/NoSQL
- AWS, Google Cloud Platform (GCP), Azure, Docker, Distributed Systems, Microservices