

Aroonav MISHRA

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<https://aroonav.github.io>

EXPERIENCE

Senior Member Technical - **CDK Global**, Hyderabad

(Jul '17 - Present)

Project: **Flex DMSaaS**

- Prototyped key features across the product in 2 months with over 90% customer satisfaction. *Won Best Team award in Apr '19 for enabling rapid expansion of the product's customer base.*
- Overhauled the test coverage process and enabled peers and seniors across teams to architecture UI apps, improving maintainability, reusability, and performance. (Done via code reviews and sessions.) *Won High Performance award in October '19 as this improved product's test coverage upto 55%*
- Developed critical screens for accounting services of dealerships and acquired expertise in AgGrid. *Won High Performance award in July '18 for using AgGrid to create complex forms in 2 months.*
- Tech stack: React, Redux

Project: **Features usage tracking**

- Make data driven decisions for finding high usage features and high priority bugs by analysing the usage tracking of components in apps across CDK.
- Tech stack: Node, React, Splunk, td-agent.

Google Summer of Code Student - **KDE**

(May - Aug '15)

Project: **Porting Amarok to Qt5 & KF5**

Mentors: Mark Kretschmann & Myriam Schweingruber

- Ported Amarok media player to use Qt5 libraries & KDE Frameworks 5 libraries, a collection of libraries by KDE that forms the foundation of KDE applications.
- Tech stack: CMake, GNU Make, Git, C++. [\[Blog Posts\]](#) [\[Code\]](#)

PROJECTS

Classifying users using Keystroke Dynamics

Undergraduate Thesis

Mentor: Prof. Puspanjali Mohapatra, IIIT Bhubaneswar

(Spring '17)

- To determine the current user on the basis of typing biometrics with high precision and accuracy using neural networks and SVM.
- Analysis of performance using various metrics on an existing and a new dataset.
- Tech Stack: Python, scikit-learn. [\[Report\]](#) [\[Code\]](#)

Comparison of anomaly detection algorithms

(Fall '16)

Mentor: Prof. Puspanjali Mohapatra, IIIT Bhubaneswar

- Investigated the performance of anomaly detection algorithms for keystroke dynamics. [\[Report\]](#) [\[Code\]](#)

Baggy bounds checking using Clang and LLVM

(Summer '16)

Mentor: Dr. Debasish Jena, IIIT Bhubaneswar

- Implemented and analysed baggy bounds checking using a binary buddy memory allocator to prevent out-of-bound errors and identify security problems using C, C++, Clang, LLVM. [\[Code\]](#)

Linux From Scratch

(Fall '14)

- Constructed a fully functional operating system running Linux kernel compiled and manually configured from source code using GNU Make, bash. [\[Code\]](#)

EDUCATION

Examination	University/Board	Institute	Year	CPI/%
Graduation	IIIT Bhubaneswar	IIIT Bhubaneswar	2013-2017	8.29/10.0
Intermediate/+2	CBSE	Sri Sankara Vidyalaya, Bhilai, CG, India	2013	88.0
Matriculation	ICSE	BEMS, Jharsuguda, Odisha, India	2011	89.7