VINAY MANEKTALLA

Software Engineer

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EXPERIENCE

HEAD OF AUDIOVISUAL SOFTWARE ENGINEERING

BMAT, TV&AV Team

📅 Dec 2020 – Present 📍 Barcelona, ES

- Head of the Audiovisual Engineering Department in a technical capacity as Lead Developer and business capacity defining the team's business strategy and aiding in the sales process.
- Design, develop and maintain web applications, backend microservices, database systems and other client products for music identification and tracking on TVs and Audiovisual productions.
- Responsibilities and major products include:
  - Leading the AV team input and development in cross-organisation projects.
  - Guiding team developments, assigning tasks, reviewing pull requests and implementing product architecture using cloud platforms such as AWS.
  - Managing developers including organisation of development items and technical requests to achieve team objectives and deliver client requests.
  - Giving technical guidance and mentorship to team in delivering development requests.
  - Interview prospective candidates and review submissions for tests and exercises.
- Technologies used: Python, MongoDB, PostgreSQL, ElasticSearch, GraphQL, Bash, Docker, AWS, Jenkins, JIRA, Git, Debian, JavaScript, Redis, RabbitMQ, Kubernetes

SOFTWARE ENGINEER

BMAT, TV&AV Software Team

📅 Nov 2019 – Dec 2020 📍 Barcelona, ES

- Responsibilities and major projects include:
  - Spearheaded the greenfield development on a new application which consolidates data from record labels, production companies, broadcasters, CMOs and various other television and music industry players to a single source of information in order to streamline AV production rights claiming.
  - Develop and maintain a natural language processing tool used to match AV works metadata to electronic programming guide metadata or post transmission logs, including 3rd Party API integration, to enrich and track AV production usage.
  - Build systems that monitor the use of audiovisual (AV) productions on TV channels.
  - Performed independent research on the effects of COVID-19 on the television and music industry.
  - Automation of cue sheet generation for music works reporting in audiovisual productions.
- Technologies used: Python, MongoDB, PostgreSQL, ElasticSearch, GraphQL, Bash, Docker, AWS, Jenkins, JIRA, Git, Debian, Linux, JavaScript, Redis, RabbitMQ, Kubernetes

SOFTWARE ENGINEER

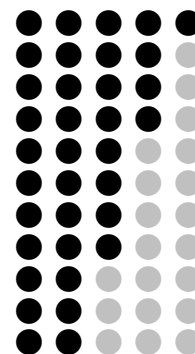**Deutsche Bank, Equities Electronic Trading**

📅 March 2017 – Nov 2019 📍 London, UK

PROFILE

Extensive software engineering and programming skills developed over seven years working in technology teams. An outstanding academic with a First Class Honours degree who has excellent analytical, research and organisational skills. Vinay set up and ran his own music promotion company.
Colleagues commend his interpersonal skills, in particular his ability to be sensitive, warm and a team player whilst ensuring he is clear, professional and respectful. Feedback from one Director emphasised how he is extremely knowledgeable and well-spoken, approachable and friendly

TECHNICAL SKILLS

Git/BitBucket, Linux/Unix, Jira ●●●●●
C/C++, Python, Bash, OracleSQL ●●●●○
MongoDB, PostgreSQL, Django ●●●●○
CI/CD (Jenkins, TeamCity) ●●●●○
MatLab, Awk, Sed, GoogleTest ●●●○○
Flask, GraphQL, ElasticSearch ●●●○○
CAD, AWS, Docker, Kubernetes ●●●○○
Redis, RabbitMQ ●●●○○
JavaScript, scikit-learn ●●●○○
PyTorch ●●○○○
HTML, CSS, C# ●●○○○

EDUCATION

MEng (Hons) Systems Engineering with Business Management (School of Engineering)

University of Warwick

📅 2015 📍 Warwick, UK

- First Class Honours
- Masters modules include: Automobile Systems, Dynamics & Control (79%), Supply Chain Management (78%), Simulation of Operations (76%), Group Research Project (Individual Mark - 74%) and others

PROJECTS

SCHOOL OF ENGINEERING, UNVERSITY OF WARWICK)

Research Engineer

- Sponsored group research project assessing the feasibility of nanofluid cooling oil within the application of power transformers (specific information withheld by a non-disclosure agreement

WARWICK AUDIO TECHNOLOGIES & SCHOOL OF ENGINEERING, UNVERSITY OF WARWICK)

Research & Prototype Engineer

- Worked closely with business and technology teams to deliver major business features, technology improvements and on-going maintenance while keeping the overall technology stack stable and providing trading hours support for issues.
- Maintained and furthered the development of execution algorithms.
- Spearheaded major projects such as:
  - The rewrite of the passive allocation model of the Smart Order Router.
  - Created a market data monitoring tool which was integrated to an external GUI to aid support teams in having a snapshot of the health of incoming data into the system.
  - Refactored the ETL process leveraging external Python libraries, such as cx_Oracle, and, as a result, designing and implementing the associated tabular database schemas and structures.
  - The productionisation of the next generation Smart Order Router which included coding the aggressive allocation and synchronized arrival logic.
  - Feature development of various requests from the business in full-day scheduling algorithms.
  - Conducted technical interviews for prospective candidates via phone and in-person for roles within the team.
- Technologies used: C++, Boost, GoogleTest, CMake, Python, Bash, Shell, Awk, SQL, CI Tools (Jenkins, TeamCity), JIRA, Git, RedHat, Solaris, SuSE

TECHNOLOGY ANALYST

Deutsche Bank, Global Branches Production Management

📅 Jul 2016 – March 2017   📍 London, UK

- Worked in a Group Technology Production and Infrastructure team across Non-Retail Branches globally, encompassing 40+ countries.
- Improved reporting with a business intelligence application and scheduling various daily and weekly reports.
- Developed a VBA application with management information on all applications in the branches network, used as the terms of reference for the Application Production Services sub-team.
- Technologies used: VBA and BI Tools

ASSOCIATE

Deloitte, Capial Markets Audit

📅 Oct 2015 – Feb 2016   📍 London, UK

- Joined as a temporary associate onto a project investigating the mis-selling of interest rate derivatives to small and medium-sized businesses in the UK and reviewing the proposed redress to these customers.

WEB DEVELOPMENT INTERN

KWICKSCREEN

📅 Jul 2014 – Sept 2014   📍 London, UK

- Developed and launched the new KwickScreen website, employing SEO and web marketing techniques to increase site traffic and sales leads, accessible at:
https://kwickscreen.com/
- Technologies used: SquareSpace, HTML, CSS

- Individual research project developing flat (<1mm) and flexible electrostatic loudspeaker technology within a point-of-sale advertising application in order to provide a new platform for consumer communication

EXPERIENCE CONT.

FOUNDER

Voices

📅 Sept 2012 – Feb 2016   📍 London, UK

- Founded and developed my own company. Primarily starting out as a music journalism website, the company eventually became a club night promoter successfully running nights in Manchester, Leeds and London with a large following on the Facebook social media platform, accessible at:
https://www.facebook.com/voicesvoxuk/