Pranove Arabagatta Basavarajappa

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EDUCATION

Northeastern University | Boston, MA   Sep 2022 - **Dec 2024**
Master of Science in Computer Science and Engineering
Courses: Advanced Algorithms, Database Systems, Reinforcement Learning, Cloud Computing, Computer Architecture

BMS Institute of Technology and Management | Bengaluru, India   Aug 2017 - Aug 2021
Bachelor of Engineering in Computer Science and Engineering
Courses: Data Structures and Algorithms, Operating Systems, Software Engineering, Entrepreneurship, Machine Learning

SKILLS

- **Languages and Frameworks**: Python, JavaScript, C#, Java
- **Databases**: MySQL, NoSQL (MongoDB), PostgreSQL
- **Frameworks**: FastAPI, Flask, Node.js, React
- **Tools:** Git, Docker, Postman, Atlassian Jira, Confluence, VS Code, IntelliJ, Firebase
- **Cloud Platforms**: Amazon Web Services, Google Cloud Platform, Heroku, Microsoft Azure

WORK EXPERIENCE

AMD (Advanced Micro Devices) | Austin, TX, United States   Jan 2024 - Aug 2024
Software Engineer Co-op – (Common Automation Framework Team. Manager: Bhaumik Shah)
- Collaborated with cross-functional teams to onboard **8,000 AMD** systems to Metal-as-a-Service (MAAS), reducing manual system deployment times of **70+ custom OSes,** saving **8000 hours**
- Designed and implemented a scalable webstore using microservices architecture to manage and schedule MAAS helper scripts and backend services, leveraging **Python, FastAPI, SQL Alchemy, Docker, Kubernetes, MySQL, and Microsoft Azure**
- Gathered raw data from deployed systems & translated them into powerful and meaningful **Power BI** visuals used for reporting to Server BU Leadership teams
- Honored by AMD University Relations as the **AMD Spotlight Intern of the Year 2024** for active participation

One Advanced | Bengaluru, India   Jul 2021 - Jul 2022
Associate Software Engineer
- **Led a team of 4** to integrate Digital Dictation with Document Direct for desktop and mobile platforms
- Spearheaded the development of **10 REST APIs** to reduce tech debt using **C#, MVC and ASP.NET** to extend the functionality of Deferred Speech Recognition for the Dictation Mobile App on Android/iOS Platforms
- Enhanced **code quality by 9%** through resolving critical **SonarQube** vulnerabilities
- Implemented **GitHub Actions** CI/CD pipelines for cross-platform application deployment and code signing
- Received outstanding feedback from the team for exceptional performance - *Source*

One Advanced | Bengaluru, India   Jan 2021 - Jun 2021
Software Engineer Intern
- Designed a comprehensive AWS serverless infrastructure using **CloudFormation** IaC templates for seamless transition of Digital Dictation to AWS
- Integrated AWS services **(S3, Lambda, Transcribe, DynamoDB, CloudWatch, Cognito)** for scalable speech recognition
- Collaborated with various important stakeholders in an Agile development setting to meet deliverables and development timelines employing Sprints and Kanban methodologies using Jira

PROJECTS

Assistive Multi-sensory Doorbell System for the Deafblind - Capstone Project @ Tatum Robotics, MA   **GitHub**
- Engineered an IoT doorbell system integrating **Arduino ESP32** with Fitbit's network via **WebSockets** for deafblind individuals
- Developed a **WCAG AA-compliant** Fitbit clock face using JavaScript to deliver multi-sensory haptic and visual notifications
- Built a **Node.js** WebSocket server to handle real-time event broadcasting, battery monitoring, and passcode validation
- Conducted **usability testing** at Perkins School for the Blind (the oldest Blind School in the US) to refine accessibility features

Therapy Bot for Users with Depression | Team of 2   **GitHub** | **Paper**
- Performed sentiment analysis on a Twitter dataset, and trained a BERT model using **Python, Flask, Node.js, BeautifulSoup4**, and deployed on **Heroku**
- Integrated model with DialogFlow using webhooks, providing an enhanced UI to aid individuals with anxiety and depression
- Published in the Journal of Positive School Psychology