MADHU PRAKASH BEHARA

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Professional Summary

Experienced Software Engineer with a background in full-stack development, specializing in cloud services (AWS, Azure), Python, JavaScript, and automation, with recent roles focusing on backend development, data migration, and CI/CD pipeline implementation. Holds a Master's in Software Engineering and a Bachelor's in Computer Science.

Skills

- **Cloud Services**: Amazon Web Services (AWS), Microsoft Azure
- **Data Management**: Python, MongoDB, NoSQL Databases, PostgreSQL, Database Management
- **Web Development**: Web Application Development, Django (Backend Development), ReactJS, Node.js, PHP, Laravel, JavaScript
- **Automation and Scripting**: Automation, Scripting, Boto3, Make.com
- **Containerization and CI/CD**: Docker, Containerization, CI/CD Pipelines, AWS Code Pipeline, Azure DevOps
- **Technical Expertise**: Technical Passion, Innovation, Growth
- **Collaboration and Design**: Teamwork, Solution Design, Process Enhancement
- **Additional Tools**: OpenCV, SurveyJS, Lodash

Experience

Python Full Stack Developer - **Fannie Mae - Reston, VA**   **05/2024 - Present**
- **Flask Application Development:** Responsible for front and backend coding in a Flask-based application, ensuring robust and efficient performance.
- **CI/CD with Jenkins:** Implemented continuous integration and deployment pipelines using Jenkins, streamlining the software delivery process.
- **AWS Automation:** Utilized Boto3 for AWS resource automation, enhancing infrastructure management and deployment efficiency.
- **Shell Scripting:** Developed and maintained shell scripts to automate routine tasks and improve system performance.

Senior Software Python Developer - **Society Brands** - **North Canton, OH**   **02/2024 to 05/2024**
- **Managed CRM Tools**: Managed and optimized CRM tools such as Klaviyo to enhance customer engagement and streamline marketing campaigns.
- **Shopify Integrations**: Developed and maintained Shopify integrations, ensuring smooth e-commerce operations and enhanced user experience.
- **Google AdSense Analysis**: Analyzed Google AdSense data and reported on key performance metrics, facilitating data-driven decision-making.
- **Microsoft Fabric Utilization**: Explored and utilized Microsoft Fabric for data management and business intelligence solutions.
- **Workflow Automation**: Automated workflows using Make.com to increase operational efficiency and reduce manual efforts.
- **Django Web Application Development**: Contributed to the development and enhancement of a Django-based web application, focusing on backend logic and API integrations.

Full Stack Software Engineer - Velocity IT Private Ltd – Hyderabad,India   **05/2022 to 08/2022**
- **Data Migration Project**: Orchestrated the standardization of patient health data integration from multiple clinical sites utilizing Python Fast API; ensured adherence to accuracy and industry compliance standards.
- **Website Enhancement**: Led full-cycle enhancements for the corporate WordPress site, focusing on elevating the user interface and backend functionalities to optimize site performance and user navigation.
- **API Development**: Pioneered the development of high-performance APIs leveraging Node.js, AWS Lambda, and API Gateway, facilitating robust system communications and efficient data management.
- **CI/CD Pipeline Development**: Executed the design and deployment of CI/CD pipelines within the Microsoft Azure framework, significantly boosting the efficiency of the software delivery lifecycle.

Software Engineer II - Legato Health Technologies LLC – Hyderabad, India   **10/2020 to 05/2022**
- **AWS Configuration Tool Enhancement**: Revitalized the user interface and backend logic of a Flask-based AWS resource configuration tool, driving improvements in data gathering precision and processing speed.
- **AWS Landing Zone Implementation**: Actively engaged in the strategic development and operational rollout of the AWS Landing Zone, expediting secure and scalable AWS account deployment while crafting comprehensive user documentation.
- **Python Automation Initiatives**: Automated the provisioning of AWS environments using Python Boto3, achieving a 50% reduction in resource management overhead.
- **IAM Policy Management System**: Developed a Django-based application for IAM policy administration, enhancing system security and user engagement through a refined, intuitive interface.

Junior Full Stack Developer - Jobiak Software Private Limited – Vizag, India   **05/2018 to 09/2020**
- **Career Site Scraper Development**: Innovated job extraction algorithms and implemented scraping bots for dynamic career site analysis, culminating in a centralized MongoDB-based job repository.
- **Scalable REST Service Engineering**: Deployed scalable RESTful services for content extraction, interfacing with machine learning outputs, and managing project deployment across AWS's EC2 ecosystem.
- **Google Jobs Data Mining**: Created an advanced scraper for Google for Jobs, automating the daily acquisition of 30K-40K job listings and integrating with MongoDB.
- **System Monitoring and Alerting Solutions**: Established a microservice monitoring bot for real-time API performance tracking and alert management, optimizing system reliability through proactive load testing.
- **Data Extraction Frameworks**: Assembled sophisticated data scrapers for platforms like LinkedIn and Glassdoor, ensuring the robust handling of large-scale datasets in MongoDB.
- **Full Stack Interface Development**: Constructed and enhanced user interface modules, integrating front-end technologies with server-side validation to streamline access to machine learning insights.

Education

Master of Science in Software Engineering
Cleveland State University   Cleveland, Ohio
GPA: 3.55/4.0

Bachelor of Technology in Computer Science Engineering
Gayatri Vidya Parishad College for Degree and PG Courses   Visakhapatnam, Andhra Pradesh
GPA: 7.01/9.0

Projects

- **Face Detection System**
  Cleveland State University (2023) Developed a Python-based face detection application using OpenCV.
  Implemented real-time facial recognition via webcam, utilizing pre-built models for accurate feature identification.
  Enhanced security and user interaction through advanced image processing techniques.
- **Voice Assistant 'Jarvis' with Face Authentication**
  Cleveland State University (2023) Designed and developed a voice-activated assistant with integrated face authentication.
  Utilized Python, FastAPI, and JavaScript Media Devices for backend operations and audio/video capture.
  Implemented APIs for weather updates (Weather API) and navigation (Google Maps API).
  Improved user security with face recognition models using OpenCV.

Accomplishments

- **Employee of the Year – Jobiak Software Private Limited (17 MAY 2019)**
  In recognition of your outstanding performance, superior dedication, and positive attitude on the job throughout the year.
- **Impact Award – Legato Health Technologies LLP (22 December 2021)**
  In recognition of making the IAM Policies attachment through the Django Application and Developing the Python Script to Remove the Hostname in all the EC2 instances across the entire AWS organization.

Activities and Honors

- **Professional Cricket:** Keeper-batsman actively engaged in professional cricket, showcasing skills in teamwork, strategic thinking, and leadership both on and off the field.
- **Photography:** Owner of the "Instant Memories" Instagram page, specializing in capturing landscapes and portraits. Expert in advanced photography techniques and editing tools to create visually compelling content.