

## Bunpheng Chhay

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### Education

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**M.S., Data Science** – Boston University, Boston MA - 2026

**B.S., Computer Science** – Sacramento State University, Sacramento CA - 2023

**A.S., Business Administration** – Atlantic Cape Community College, Atlantic City, NJ - 2019

**Certification:** AWS Certified Cloud Practitioner (ID: MEMWP59DP2V4Q4C8)

### Skills

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**Language & Frameworks:** Java, JavaScript, Python, R, HTML/CSS, SQL, Node.js, React, Express, MongoDB, Figma

**Cloud & DevOps:** AWS (EC2, Lambda, S3, Amplify, Connect, Lex, SageMaker, etc.), Docker, CloudWatch, API Gateway

**Data & AI:** PyTorch, NumPy, Pandas, Scikit-learn, Transformers, LangChain, Pinecone, LLAMA3, Hugging Face

**Tools & Practices:** Git, Jupyter, Linux, Jira, Agile/Scrum, CI/CD, Unit Testing, System Design, Agentic AI

### Experience

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**Full stack AIML Engineer** – Consultant, Kismet XYZ (Jan 2025 – Now)

- Developed Agentic AI solutions that enable tools calls to interact with database, users, and RAG chatbot application
  - Gathered requirements from stakeholders, build POC, ETL pipeline, and event driven system for real time Dashboard
  - Built frontend that enabled users to monitor metrics, comments, and receive notification bases on system event
- Tech used: React, AWS(Amplify, Lambda, Dynamodb), Langgraph, LLM, Embeddings, Pinecone, FastAPI, Github Action

**Web Developer** – Self Employed (Apr 2024 – Jan 2025) [View Client Project](#)

- Developed and Deployed React Web Apps for small business integrated analytic and SEO improvement resulting in 40% increase in viewer engagement. Provided support to users including design, update and site traffic analysis
- Tech used: React, AWS (Amplify, Route53), Google Analytic, CI/CD, GitHub, HTML/CSS, JavaScript

**Associate Solution Architect** – Intern, Amazon Web Services (May 2022 – Aug 2022)

- Designed and launched 2 end to end AIML apps: conversational bot, and serverless app feature at AWS reinvent
  - Identify business requirement, developed POC, reference architecture, cost projection, and demoed two prototypes
  - Built distributed event driven system for computer vision and NLP real time data analysis task, and ETL pipeline
  - Deployed Rest API, monitoring system, and storage solutions for automatic trigger to frontend and backend task
  - Provided technical support to customer project including research and report on data migration, security, and CI/CD
- Tech used: Lambda, S3, Amplify, Rekognition, Connect, API gateway, Cloudwatch, X-ray, Step Function, Sagemaker

**Assistant Operation Manager** – TLBU Foundation (May 2016 – Aug 2017)

- Supported customer relations by addressing inquiries, resolving issues, and ensuring high satisfaction levels
- Identified target market, created business plan, market research, IT infrastructure, and optimized operation

### Projects

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**Foodie Project** – Team Lead & Developer, Independent Group Initiative (May 2024 – Jan 2025)

- Developed a food review platform with GenAI chatbot capable of answering questions and provide recommendation
  - Designed and built Agentic AI system and ETL pipeline enable fast retrieval, sending emails, text, and other actions
- Tech used: MERN stack, Langgraph, Text Embeddings, Pinecone, Llama3, Docker, AWS(ECS, ECR, ALB), Github, React

**Facial Emotion Recognition** – Deep Learning Project, SJSU (Apr 2024)

- Fine tuned Vision Transformer (ViT) on RAF-DB achieving 86% accuracy in classifying facial expression
  - Applied Hyperparameter tuning, early stopping rule, and data augmentation to improve model performance
- Tech used: Pytorch, ViT, CNN, YOLO, Colab RAF-DB

**Movie Theater Club App** – Team Lead & Developer, Class Project (Oct 2023 – Dec 2023)

- Led a team of 3 designing and developing Figma, backend system, and database schema, Auth and Geolocation
- Tech used: Node.js, Express, MongoDB, React, AWS EC2

**University Database Management System** – CSUS (Aug 2020 – Dec 2020)

- Designed a database management system for a university including schema design, automated mass data insertion, and added functionality for creating, updating, deleting, dropping, altering, asserting, and view with SQL

### Award and Honors

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- 1<sup>st</sup> place – Inaugural WWCS Intern PRFAQ contest on “most likely to become an Amazon feature”, AWS, 2022