Chang Min Bark

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github.com/changminbark

EDUCATION

Bucknell University   Lewisburg, PA
B.S. in Computer Science and Engineering w/ Business Management, Math Minor   *Expected: 2026*
Relevant Coursework   Calculus 2,3; Data Structures & Algorithms; Software Engineering & Design; Physics 1,2;
Statistics & Engineering; Linear Algebra (Expected); Discrete Structures (Expected)

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript/TypeScript, HTML/CSS
Frameworks: React, Node.js, Express.js, Material-UI, Spring Boot, Scrum/Agile
Developer Tools: Git, GitHub, Postman, MongoDB, VS Code, Visual Studio, PyCharm, IntelliJ, Jupyter Lab, Tableau
Anaconda (WIP)
Libraries: pandas, NumPy, Matplotlib, XlsxWriter, scikit-learn (WIP), TensorFlow (WIP), PyTorch(WIP)

EXPERIENCE

Advanced Analytics Research Lab (funded by NSF)   Sept. 2023 – Present
Bucknell University/NSF   *Lewisburg, PA*
- Developed and fixed Machine Learning model (convolutional neural network) on Jupyter Lab using PyTorch that is capable of rudimentary image processing (9x9 pixels)
- Extracted and organized **100+** parameters of convolutional layers and linear layers of a CNN after 25 training epochs to evaluate/monitor Machine Learning training

Fullstack Developer   January 2023 – Present
TEDxBucknellUniversity   *Lewisburg, PA*
- Collaborated with website team to develop a fully responsive website for TEDxBucknell events such as the 4+ talks given every year and attended by **1000+ people**, resulting in annual sales of more than **$5,000**
- Designed the front-end components like pages and an accordion using React
- Created the middleware and authentication/authorization routes for admin login/management system
- Built the RESTful APIs and routes that let admins log into the website to update information

General Assistant (Software) Intern   Feb. 2021 – May 2021
Garam-Jeongbo-Tongsin   *Uijeongbu-si, South Korea*
- Created Excel inventory of over **10,000** computer parts using Python and XlsxWriter
- Built over 20 PCs with state-of-the-art components that were sold to consumers nationwide
- Aided marketing team in developing a marketing strategy to target younger consumers that led to a **20% increase in monthly sales worth $10,000**

PROJECTS

Company Sentiment AI | *Node, Express, Puppeteer, Cron, AI/Classification Models, Python*   July 2023 – Present
- Developed an automated web-scraper using cron and puppeteer that scrapes over 20+ headlines from a company's Google News page
- Parsed with regex and analyzed the data to determine whether the media's sentiment towards a company was positive or negative
- Utilized and tested AI/classification models like SVC, KNearestNeighbors, DecisionTree, RandomForest, NLP, and Deep Learning Neural Network to see which model was the most accurate

Olah Website | *MongoDB, Express, React, Node, Material-UI, Git, Postman*   June 2023 – Present
- Constructed a fully responsive social media website that lets sports lovers create/join events and see their ranking
- Developed an authentication/authorization system using JWT
- Wrote over **5,000** lines of code that were published to GitHub

HONORS

Dean's List, Google Development Student Club Officer, Badminton Club President, Fremont Scholar