

# 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: 2025/2026*

**Relevant Coursework** Calculus 2,3; Data Structures & Algorithms; Software Engineering & Design; Physics 1,2; Statistics & Engineering; Programming Language Design (Expected); Logic, Sets, and Proof (Expected); Applied Combinatorics (Expected)

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Express.js, Material-UI, Scrum/Agile

**Developer Tools:** Git, GitHub, Postman, MongoDB, VS Code, Visual Studio, PyCharm, IntelliJ, Jupyter Lab, Anaconda (WIP)

**Libraries:** pandas, NumPy, Matplotlib, XlsxWriter, scikit-learn (WIP), TensorFlow (WIP), PyTorch(WIP)

## EXPERIENCE

### Undergraduate Research Assistant

Sept. 2023 – Present

*Bucknell University*

*Lewisburg, PA*

- Extracted and organized 100+ parameters of convolutional layers and linear layers of a convolutional neural network after 25 training epochs to evaluate/monitor ML training

### 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
- Created a simple website using Node and Express Generator to display information, allowing users to select the company

### Olah Website | MongoDB, Express, React, Node, Material-UI Git

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

### TEDxBucknellUniversity | MongoDB, Express, React, Node, Git, Postman

January 2023 – Present

- Collaborated with website team to develop a fully responsive website that contains information about TEDxBucknell events such as the 4+ talks given every year and attended by 100's of audiences
- Designed the front-end components like pages and an accordion using React
- Created the middleware and authentication/authorization routes
- Built the REST APIs and routes that let admins log into the website to update information

## EXTRACURRICULARS

Badminton Club President, Alpha Lambda Delta Honor Society Member, ACM member