**KIEN LE TA** <linkedin.com/in/kienta>

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**EDUCATION**

**Washington University in St. Louis,** St. Louis, Missouri Expected Graduation: May 2022

* Bachelor of Science in Computer Science. **GPA: 3.95/4.0**
* Related Coursework: Data Structures & Algorithms, Object-Oriented Software Development Laboratory, Creative Programming and Rapid Prototyping, Mobile Application Development, Probability And Statistics For Engineering.

**DePauw University**, Greencastle, Indiana Attended: 2018 - 2020

* Bachelor of Arts in Pre-Engineering. Degree Conferral Expected: May 2022
* Related Coursework: Foundation of Computation, Programming Languages, Computer System. **GPA: 4.0/4.0**
* Top 50, International Collegiate Programming Contest of North America 2019.
* Publication: Nagai, M., Shrivastava, K., Ta, K., Bogaerts, S., & Byers, C. 2021. A Highly-Parameterized Ensemble to Play Gin Rummy. Proceedings of the AAAI Conference on Artificial Intelligence. AAAI press (in press).

**TECHNICAL SKILLS**

* **Programming Languages**: Java, C++, Python, JavaScript, PHP, Swift.
* **Full Stack Development**: Spring, Node.js, MySQL, MongoDB, jQuery, AJAX, React, HTML, CSS.
* **Tools**: Git, Apache, Linux, Bash, Docker, Amazon EC2, phpMyAdmin, Vim, Eclipse, Visual Studio Code, XAMPP.

**WORK EXPERIENCE**

**Software Engineer Intern**, *FPT Software* December 2020 - Present

* Join an Agile Scrum team aiming to increase the labor efficiency of partner companies by at least 15% after transitioning to the online warehouses management system in the pandemic situation.
* Develop a scalable application to monitor the inbound and outbound processes of warehouses with the help of Docker to configure and deploy the application with the appropriate libraries and dependencies.
* Utilize Java Spring to build a RESTful API to interact with MySQL database to track and manage the warehouse's inventories and React to generate UI components.

[**AI Researcher**](https://github.com/kienta1999/Gin_Rummy_AI_Player), *DePauw University* June 2020 – August 2020

* Created AI Gin Rummy player, utilizing OOP principles, that recorded the opponent’s moves, evaluated the situation, and ensembled hyperparameters that dictated player’s actions using Java.
* Tuned the hyperparameters using Genetic Algorithms and Exhaustive Search, which resulted in an 80% win rate against the standard player.
* Picked the best hyperparameters from visualized Heatmap and 3D Scatter Plot generated using Python’s Seaborn and Matplotlib.

**IT Intern**, *Information Technology Associates Program* September 2019 - May 2020

* Developed unit tests in Java and C++ to validate, debug, and ensure that students’ solution follows guidelines and protocols.
* Held office hours for students in Data Structures and Object-Oriented Software Development to practice solving algorithm problems and help debug code in Java and C++.
* Hosted one on one sessions to address students’ weaknesses and improve their problem-solving and technical skills.

**PROJECT & ACTIVITIES**

[**Personal Blog Website**](https://github.com/kienta1999/PersonalBlog), *HTML, CSS, and JavaScript, Node.js* August 2020 - September 2020

* Delivered a functional blog website, generated with EJS, to users by handling get and post requests, which allows them to modify or add blogs with Node.js Express.
* Saved and updated the posted blogs in MongoDB database for future usage using Node.js Mongoose.

[**Hackathon Movie Recommendation**](https://github.com/kienta1999/Hackathon_MovieRecommenderSystems)**,** *Python* March 2020

* Ranked #5 in St. Mary College’s Hackathon competition for predicting users’ ratings for unwatched movies using data normalization and scikit surprise singular value decomposition.
* Performed Grid Search to find the most suitable hyperparameters, which led to higher accuracy.

[**Social News Website**](https://github.com/kienta1999/Social_News_Website)**,** *PHP, HTML, CSS* October 2020

* Delivered a fully functional news website that supports uploading, viewing, commenting, and deleting stories and comments associated with registered users with the help of Apache and AWS.
* Safely stored users’ information, stories, and comments in MySQL relational database.

[**Event Calendar**](https://github.com/anhvqle/Event_Calendar), *JavaScript, PHP, HTML, CSS* November 2020

* Built a functional Event Calendar website that allows users to add and remove events dynamically, using jQuery, PHP, and AJAX to communicate with server and run scripts that query MySQL database to save and retrieve information.
* The web application prevents Cross-Site Scripting, or any session hijacking attacks to ensure web security and validation.

[**Company’s Past Sale Data Analysis**](https://github.com/kienta1999/BusinessCase), *Python* December 2019 – January 2020

* Inputted and trained the data through a deep neural network using stochastic gradient descent and backpropagation, which led to 85% accuracy.
* Predicted whether the customers will come back to buy audiobooks again using past book purchases, customers’ reviews, and the number of pages listened.

[**Movie Search App**](https://github.com/kienta1999/MovieSearchApp), *Swift* November 2020

* Developed an iOS mobile application with the Model-View-Controller framework that utilizes remote API to parse JSON data from The Movie Database TMDb for movie search and recommendation.
* Integrated collection and table view structures into the view hierarchy while saving the movie data to UserDefaults.

[**Musyc**](https://github.com/kienta1999/Musyc), *Swift* December 2020

* Developed an iOS mobile application that utilizes multiple music APIs (Spotify, Happi, and Nestease) for users to search for lyrics and listen and download music online.
* User’s information and favorite songs are stored in a Firebase database for future reference.

[**File Sharing System**](https://github.com/kienta1999/FileSharingSystem)**,** *PHP, HTML, CSS* September 2020

* Delivered a file sharing system, using PHP, that supports uploading, viewing, sharing, and deleting files associated with various users.
* Deployed the website with Apache and AWS server to reach users while validating files security.

[**Simon Game Simulator**](https://github.com/kienta1999/SimonGame)**,** *HTML, CSS, and JavaScript* July 2020

* Structured and styled the game with HTML and CSS to create an interactive user interface.
* Designed the HTML button tags by adding sound and image effects with jQuery, which helped signal the next step users should follow to complete the game.

[**Multi-Room Chat Server**](https://github.com/kienta1999/Chat_Server)*, HTML, CSS, and JavaScript, Node.js* November 2020

* Developed a chat service that allows users to communicate with each other or create chat rooms for other to join with Node.js Express and Socket.io.
* Allowed clients to retrieve messages constantly, filter out profanity, and block others when needed.

[**Simulated File System**](https://github.com/kienta1999/Simulated_File_System)*, C++*November 2020 – December 2020

* Developed a file system utilizing OOP principles and design patterns that allows users to create, read, write, and manage access to password-protected file with C++.
* Implemented a friendly command pattern for user to interact with the file system dynamically.

**[Cart & Go](https://github.com/kienta1999/Cart_And_Go)***, JavaScript, Node.js*November 2020 – December 2020

* “Cart & Go” is a cloud restaurant that allows users to order food and drinks online as well as recommends nearby restaurant based on user’s location using multiple APIs (Yelp, Spoonacular).
* The web application safely stores user’s information and order history in a MongoDB database and utilizes npm packages to hash password to ensure web security and validation.

**DePauw Data Science Club** August 2018 – May 2020

* Pre-processed, analyzed, and visualized data with NumPy, Pandas, Matplotlib, and scikit-learn.
* Ranked first in DePauw University’s programming contest held by Data Science club on HackerRank.