Paws T. Husky

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SUMMARY

Transitioning from architecture to IoT and smart buildings, leveraging expertise in computational design and automation. Experienced in parametric modeling, real-time data processing, and optimizing building performance through software-driven solutions. Passionate about integrating IoT for enhanced energy efficiency, security, and sustainability.

EDUCATION

Northeastern University, Seattle, WA May 20XX
Master of Science, Computer Science
University of California, Los Angeles June 20XX
Master of Architecture
Tongji University, Shanghai, China May 20XX
Bachelor of Architecture

TECHNICAL SKILLS

Programming Languages: JAVA, Python, C, C#, JavaScript, HTML, CSS, SQL, Visual Basic
Domains: Data Structure & Algorithms, Design Patters, Test Driven Development, Object-Oriented Design
Software and Tools: Git, MySQL, Node.js, MongoDB, Bootstrap

WORK EXPERIENCE

Fillat + Architects, Washington D.C. May 20XX - May 20XX
Staff Designer

- Developed data-driven automation workflows using Autodesk Revit plug-ins to optimize building information modeling (BIM) for smart buildings.
- Conducted parametric design using Grasshopper & Rhino, applying algorithmic thinking for efficient space utilization.
- Performed energy modeling & daylight analysis (Ecotect, Revit) to support smart building solutions.

PROJECTS

Forage: Smart Buildings IoT Virtual Experience June 20XX

- Designed an IoT-based smart building system integrating HVAC, lighting, and sensors.
- Implemented MQTT and Zigbee protocols for seamless IoT device communication.
- Developed a cloud dashboard on AWS IoT for real-time monitoring.
- Applied cybersecurity principles to secure smart building networks.

Invoicing System Application April - June 20XX

- Developed a full-stack invoicing system application for property services company to manage daily service needs and automatically calculate service-based fees
- Designed & implemented UML database using MySQL to create/delete items, calculate price, & archive users through MongoDB.
- Tracked and managed clients' finances, base rates, and discount prices with reports in customizable interface allowing multiple businesses to improve users' experience in one system
- Environments: **JAVA, MySQL, JavaScript, MongoDB, HTML, CSS**

Fractalspace VR Application May - July 20XX

- Created algorithm based on fractals connecting hand gestures (pinch, grasp, touch) and VR environment in real-time allowing users to interact with virtual environment
- Reduced model execution time by an average of 50% through designing multiple interim, executions in parallel, performing as backward compatible with previously running models in sequence
- Environments: **C#, Visual Studio Code, Leap Motion API, Unity, HTC Vive.**

ACTIVITIES

CFA Level II Candidate

Job Title: IoT Architect for Smart Buildings

Position Overview:
We are seeking an experienced **IoT Architect for Smart Buildings** to lead the design and implementation of intelligent infrastructure solutions. This role involves integrating IoT devices, cloud computing, AI, and automation to enhance energy efficiency, security, and sustainability. The ideal candidate will have expertise in IoT architecture, networking protocols, and cloud-based smart building platforms.

Key Responsibilities:

- Design and develop **scalable IoT solutions** for smart buildings, integrating sensors, automation, and cloud computing.
- Implement **IoT communication protocols** such as MQTT, Zigbee, LoRa, and BACnet for seamless device connectivity.
- Collaborate with **stakeholders** (facility managers, engineers, and software developers) to define smart building strategies.
- Enable **real-time data processing** using edge computing, AI-driven analytics, and cloud IoT services (AWS IoT, Azure IoT, Google Cloud IoT).
- Enhance **cybersecurity** by implementing encryption, authentication, and secure device management.
- Optimize building performance by integrating **HVAC, lighting, security, and occupancy detection systems**.
- Develop **dashboards and visualization tools** for real-time monitoring and predictive maintenance.
- Stay updated on **emerging IoT technologies** and smart building innovations.

Required Skills & Qualifications:

- Bachelor's or master's degree in computer science**, Electrical Engineering, or a related field**.
- **5+ years** of experience in IoT architecture, smart buildings, or embedded systems.
- Proficiency in **Python, C, and JavaScript** for IoT and cloud development.
- Strong knowledge of **networking protocols** (MQTT, CoAP, Zigbee, LoRa, Modbus, BACnet).
- Experience with **cloud platforms** (AWS IoT, Azure IoT, Google Cloud IoT).
- Understanding of **AI/ML for predictive maintenance and automation**.
- Expertise in **edge computing and real-time data processing**.
- Familiarity with **cybersecurity principles** in IoT environments.

Preferred Qualifications:

- Experience with **digital twins and building simulation models**.
- Knowledge of **IoT security frameworks and compliance standards**.
- Certifications in **AWS IoT, Azure IoT, or smart building technologies**.

Join us to revolutionize smart building technology and drive the future of intelligent infrastructure!